



1: [AL133463](#). Human DNA sequenc...[gi:10443352] [Links](#)

Links

sections only once, except for a short overlap.
The true left end of clone RP4-585I14 is at 84023 in this sequence.
The true right end of clone RP5-1077I2 is at 100 in this sequence.

FEATURES
Location/Qualifiers

source 1..84122
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="20"
/clone="RP11-149I18"
/clone_lib="RPCI-11.1"

gene 1..30067
/gene="C20orf82"

mRNA join(<1..159,9050..9314,17956..18099,21790..21879,
28358..30067)
/gene="C20orf82"
/product="bA149I18.1 (novel protein)"
/note="Continues from dJ1077I2.1 in Em:AL050320
match: ESTs: Em:AI191256 Em:R44763 Em:W86073 Em:AI082824
Em:AI886394 Em:R52250 Em:AV708785 Em:W07772 Em:AV660737
Em:BF302850 Em:AW426875 Em:W86257 Em:AW873508 Em:BE287313
Em:AW495535 Em:AW435648 Em:AW435639 Em:AL732076"
/evidence=not_experimental

CDS join(<1..159,9050..9314,17956..18099,21790..21879,
28358..28875)
/gene="C20orf82"
/note="Continues from dJ1077I2.1 in Em:AL050320
match: proteins: Tr:Q9H599 Tr:O95432"
/codon_start=1
/evidence=not_experimental
/product="bA149I18.1 (novel protein)"
/protein_id="CAC16127.2"
/db_xref="GI:13374941"
/db_xref="GOA:Q9H599"
/db_xref="SPTREMBL:Q9H599"
/translation="HQA AHQPFP RPRFRQETGHP SLQRDFPRS FLDDL PNF PDL SKAD
INGQNPNIQVTIEVVDGPDSEADKDQHPENKPSWSVSPDWRAWQRSLSLARANS
GDQDYKDSTSDSNFLNPPRGWDHTAPGHRTFETKDQPEYDSTDGEGDWSLWSVCSVTC
GNGNQKRTRSCGYACTATESRTCDRPNCPGIEDTFRTAATEVSLLAGSEEFNATKLFE
VDTDCERWMSCKSEFLKKYMHKVMNDLPSCPCSYPTVAYSTADIFDRIKRKDFRWK
DASGPKEKLEIYKPTARYCIRSMLSLESTTLAAQHCCYGDNMQLITRGKGAGTPNLIS
TEFSAELHYKVDVLPWIICKGDWSRYNEARPPNNGQKCTESPSDEDYIKQFQEAREY"

repeat region complement(316..456)
/note="MER104 repeat: matches 32..176 of consensus"

repeat region 453..472
/note="4.0 copies 5 mer AAAAC 31% conserved"

repeat region 487..505
/note="3.8 copies 5 mer AAAAC 38% conserved"

repeat region 708..717
/note="2.5 copies 4 mer AGGA 20% conserved"

repeat region complement(885..1058)
/note="MIR repeat: matches 24..189 of consensus"

repeat region complement(1202..1494)
/note="AluJb repeat: matches 1..289 of consensus"

repeat region 2597..2608
/note="2.0 copies 6 mer ATTCCC 24% conserved"

repeat region 2632..2670
/note="7.8 copies 5 mer TTTTA 78% conserved"

repeat region complement(2642..2951)
/note="AluJo repeat: matches 1..311 of consensus"

repeat region 3417..3426
/note="2.5 copies 4 mer AAAG 20% conserved"

repeat region 3476..3501
/note="13.0 copies 2 mer TG 43% conserved"

repeat region 3498..3511

<u>repeat region</u>	/note="2.3 copies 6 mer TGTGCA 28% conserved" 3512..3538
<u>repeat region</u>	/note="13.5 copies 2 mer CA 29% conserved" 3950..3967
<u>repeat region</u>	/note="2.2 copies 8 mer CCTCCCCA 27% conserved" 4082..4106
<u>repeat region</u>	/note="5.0 copies 5 mer CCCCCG 25% conserved" 4908..5154
<u>repeat region</u>	/note="MIR repeat: matches 34..238 of consensus" 5194..5205
<u>repeat region</u>	/note="2.0 copies 6 mer AGATGA 24% conserved" 5203..5333
<u>repeat region</u>	/note="MIR3 repeat: matches 2..145 of consensus" 6382..6398
<u>repeat region</u>	/note="3.4 copies 5 mer TGTTT 25% conserved" 6560..6569
<u>repeat region</u>	/note="10.0 copies 1 mer A 20% conserved" 7020..7033
<u>repeat region</u>	/note="2.0 copies 7 mer GATGTAT 28% conserved" 7036..7048
<u>repeat region</u>	/note="2.6 copies 5 mer CTTTT 26% conserved" 7060..7073
<u>repeat region</u>	/note="14.0 copies 1 mer T 28% conserved" 7507..7606
<u>repeat region</u>	/note="MER121 repeat: matches 167..268 of consensus" 7867..7878
<u>repeat region</u>	/note="2.0 copies 6 mer CACCTG 24% conserved" 7941..8067
<u>repeat region</u>	/note="MIR repeat: matches 1..140 of consensus" complement(8078..8523)
<u>repeat region</u>	/note="MLT1H1 repeat: matches 27..527 of consensus" 8373..8385
<u>repeat region</u>	/note="2.2 copies 6 mer AATGAA 26% conserved" 8538..8624
<u>repeat region</u>	/note="MIR repeat: matches 170..262 of consensus" 8680..8796
<u>repeat region</u>	/note="MLT1H1 repeat: matches 395..518 of consensus" 8840..8849
<u>repeat region</u>	/note="2.0 copies 5 mer CCCAA 20% conserved" 9512..9528
<u>repeat region</u>	/note="3.4 copies 5 mer AAATC 25% conserved" 9751..9760
<u>repeat region</u>	/note="2.0 copies 5 mer AGTGG 20% conserved" 9808..9819
<u>repeat region</u>	/note="12.0 copies 1 mer C 24% conserved" complement(9887..10266)
<u>repeat region</u>	/note="MLT1J2 repeat: matches 6..416 of consensus" complement(10536..10673)
<u>repeat region</u>	/note="L2 repeat: matches 3125..3270 of consensus" complement(10826..11052)
<u>repeat region</u>	/note="MIR repeat: matches 2..261 of consensus" 11277..11343
<u>repeat region</u>	/note="MER5A repeat: matches 35..101 of consensus" 11344..11517
<u>repeat region</u>	/note="MER5A repeat: matches 1..182 of consensus" 11367..11381
<u>repeat region</u>	/note="2.5 copies 6 mer CCAGAA 21% conserved" 11520..11698
<u>repeat region</u>	/note="MER5B repeat: matches 2..178 of consensus" 11773..11825
<u>repeat region</u>	/note="MER5A repeat: matches 136..187 of consensus" 11978..11989
<u>repeat region</u>	/note="2.0 copies 6 mer CCTAGA 24% conserved" complement(12156..12212)
<u>repeat region</u>	/note="MER5A repeat: matches 132..189 of consensus"

<u>repeat region</u>	complement(12248..12291) /note="MER5A repeat: matches 9..52 of consensus"
<u>repeat region</u>	12306..12348 /note="L2 repeat: matches 3271..3313 of consensus"
<u>repeat region</u>	12337..12350 /note="3.5 copies 4 mer GAAT 28% conserved"
<u>repeat region</u>	complement(12443..12595) /note="FRAM repeat: matches 1..40 of consensus"
<u>repeat region</u>	12453..12464 /note="3.0 copies 4 mer TTTA 24% conserved"
<u>repeat region</u>	12686..12700 /note="2.5 copies 6 mer GAAACA 21% conserved"
<u>repeat region</u>	12995..13005 /note="2.2 copies 5 mer AGATG 22% conserved"
<u>repeat region</u>	13397..13552 /note="MIR repeat: matches 35..193 of consensus"
<u>repeat region</u>	14129..14138 /note="2.5 copies 4 mer ACAT 20% conserved"
<u>repeat region</u>	14157..14167 /note="2.2 copies 5 mer TTCAC 22% conserved"
<u>repeat region</u>	complement(14382..14420) /note="MLT1H repeat: matches 516..549 of consensus"
<u>repeat region</u>	14418..14428 /note="2.2 copies 5 mer CCAGG 22% conserved"
<u>repeat region</u>	14421..14739 /note="AluJo repeat: matches 1..310 of consensus"
<u>repeat region</u>	14712..14739 /note="28.0 copies 1 mer A 20% conserved"
<u>repeat region</u>	complement(14740..15136) /note="MLT1H repeat: matches 27..516 of consensus"
<u>repeat region</u>	14796..14826 /note="3.1 copies 10 mer GTCTGGACTG 35% conserved"
<u>repeat region</u>	14807..14826 /note="4.0 copies 5 mer TCTGG 31% conserved"
<u>repeat region</u>	14830..14841 /note="2.0 copies 6 mer GGCTGG 24% conserved"
<u>repeat region</u>	16323..16332 /note="3.3 copies 3 mer GCA 20% conserved"
<u>repeat region</u>	complement(16534..16892) /note="THE1B repeat: matches 1..364 of consensus"
<u>repeat region</u>	16900..17163 /note="L2 repeat: matches 3054..3310 of consensus"
<u>repeat region</u>	17154..17163 /note="2.5 copies 4 mer TGGA 20% conserved"
<u>repeat region</u>	complement(17207..17419) /note="MLT1H1 repeat: matches 327..555 of consensus"
<u>repeat region</u>	17381..17399 /note="1.9 copies 10 mer AGAAGGCTTG 38% conserved"
<u>repeat region</u>	17573..17596 /note="12.0 copies 2 mer TC 32% conserved"
<u>repeat region</u>	18197..18215 /note="3.8 copies 5 mer CTTTT 31% conserved"
<u>repeat region</u>	complement(18198..18489) /note="AluSg repeat: matches 13..301 of consensus"
<u>repeat region</u>	18198..18218 /note="21.0 copies 1 mer T 24% conserved"
<u>repeat region</u>	18871..18882 /note="2.4 copies 5 mer AAAC 24% conserved"
<u>repeat region</u>	18940..19047 /note="MER58C repeat: matches 1..132 of consensus"
<u>repeat region</u>	19015..19028 /note="4.7 copies 3 mer GAA 21% conserved"
<u>repeat region</u>	19016..19034 /note="3.2 copies 6 mer AAGAGA 22% conserved"
<u>repeat region</u>	19034..19043

<u>repeat region</u>	/note="3.3 copies 3 mer AGG 20% conserved" 19040..19117
<u>repeat region</u>	/note="6.5 copies 12 mer AGGAGGAAGAGA 56% conserved" 19050..19061
<u>repeat region</u>	/note="2.0 copies 6 mer GAAGGG 24% conserved" 19065..19115
<u>repeat region</u>	/note="17.0 copies 3 mer GGA 66% conserved" 19103..19197
<u>repeat region</u>	/note="MER58C repeat: matches 119..215 of consensus" 19679..19694
<u>repeat region</u>	/note="5.3 copies 3 mer GAG 23% conserved" 19785..20098
<u>repeat region</u>	/note="AluY repeat: matches 2..306 of consensus" 20083..20097
<u>repeat region</u>	/note="3.8 copies 4 mer AAAG 30% conserved" 20121..20131
<u>repeat region</u>	/note="2.2 copies 5 mer AAAAT 22% conserved" 20132..20142
<u>repeat region</u>	/note="3.7 copies 3 mer GAT 22% conserved" complement(20136..20382)
<u>repeat region</u>	/note="MIR repeat: matches 8..261 of consensus" 20797..20807
<u>repeat region</u>	/note="2.2 copies 5 mer CCTGG 22% conserved" 20968..20977
<u>repeat region</u>	/note="3.3 copies 3 mer CCT 20% conserved" complement(21260..21460)
<u>repeat region</u>	/note="MIR repeat: matches 2..219 of consensus" 21417..21426
<u>repeat region</u>	/note="2.5 copies 4 mer CAGT 20% conserved" 21536..21546
<u>repeat region</u>	/note="2.8 copies 4 mer AGTG 22% conserved" 21933..21945
<u>repeat region</u>	/note="2.2 copies 6 mer CTTTGT 26% conserved" 21973..21988
<u>repeat region</u>	/note="2.7 copies 6 mer TTTCAT 23% conserved" 22015..22024
<u>repeat region</u>	/note="2.5 copies 4 mer CTTG 20% conserved" 22257..22270
<u>repeat region</u>	/note="3.5 copies 4 mer GAGG 28% conserved" 22331..22644
<u>repeat region</u>	/note="AluY repeat: matches 1..302 of consensus" 22579..22596
<u>repeat region</u>	/note="2.2 copies 8 mer GCACTCCA 36% conserved" 22624..22641
<u>repeat region</u>	/note="18.0 copies 1 mer A 36% conserved" 22744..22759
<u>repeat region</u>	/note="2.3 copies 7 mer AGGTGCA 32% conserved" 22920..22930
<u>repeat region</u>	/note="11.0 copies 1 mer T 22% conserved" 22989..23014
<u>repeat region</u>	/note="2.0 copies 13 mer TGGGGTCAGGTAA 52% conserved" 23110..23419
<u>repeat region</u>	/note="AluSq repeat: matches 3..312 of consensus" 23316..23327
<u>repeat region</u>	/note="2.0 copies 6 mer GGAGGT 24% conserved" 23391..23424
<u>repeat region</u>	/note="34.0 copies 1 mer A 32% conserved" complement(23515..23680)
<u>repeat region</u>	/note="Charlie8 repeat: matches 29..199 of consensus" 23900..23910
<u>repeat region</u>	/note="2.8 copies 4 mer CAGG 22% conserved" complement(23996..24102)
<u>repeat region</u>	/note="LTR33 repeat: matches 415..521 of consensus" 24141..24155
<u>repeat region</u>	/note="2.5 copies 6 mer GCCACA 30% conserved"

repeat region complement(24208..24360)
/note="MIR repeat: matches 38..192 of consensus"
repeat region 24502..24512
/note="3.7 copies 3 mer CAC 22% conserved"
repeat region 24510..24526
/note="2.1 copies 8 mer CCAGCCTC 25% conserved"
repeat region 24858..24870
/note="2.2 copies 6 mer GCCCCA 26% conserved"
repeat region complement(24986..25364)
/note="LTR16B repeat: matches 1..449 of consensus"
repeat region 25471..25483
/note="2.2 copies 6 mer TTTGCC 26% conserved"
repeat region 25567..25576
/note="2.5 copies 4 mer ACCC 20% conserved"
repeat region 25584..25787
/note="LTR16C repeat: matches 11..241 of consensus"
repeat region complement(25792..26153)
/note="MER92B repeat: matches 272..631 of consensus"
repeat region 26154..26431
/note="AluSg repeat: matches 1..278 of consensus"
repeat region complement(26432..26701)
/note="MER92B repeat: matches 2..272 of consensus"
repeat region 26702..26928
/note="LTR16C repeat: matches 249..491 of consensus"
repeat region 26828..26843
/note="2.0 copies 8 mer TCCCCTGC 32% conserved"
repeat region complement(26967..27292)
/note="MER102b repeat: matches 5..329 of consensus"
repeat region 27020..27035
/note="3.2 copies 5 mer GAGCT 23% conserved"
repeat region 27483..27539
/note="14.2 copies 4 mer TTAT 46% conserved"
repeat region 27494..27516
/note="3.8 copies 6 mer TATTTT 37% conserved"
repeat region complement(27522..27831)
/note="AluSx repeat: matches 1..300 of consensus"
repeat region 27890..28097
/note="L1MC4 repeat: matches 7781..8042 of consensus"
repeat region 28355..28366
/note="2.0 copies 6 mer CAGACA 24% conserved"
repeat region 29140..29149
/note="3.3 copies 3 mer AGA 20% conserved"
repeat region 29346..29356
/note="2.8 copies 4 mer AGAA 22% conserved"
repeat region 29726..29736
/note="2.2 copies 5 mer AACAA 22% conserved"
repeat region 29814..29825
/note="3.0 copies 4 mer AATA 24% conserved"
polyA signal 29986..29991
/gene="C20orf82"
polyA site 30009
/gene="C20orf82"
repeat region 30044..30061
/note="6.0 copies 3 mer ATA 20% conserved"
polyA signal 30046..30051
/gene="C20orf82"
polyA signal 30057..30062
/gene="C20orf82"
polyA site 30067
/gene="C20orf82"
repeat region 30370..30381
/note="2.0 copies 6 mer CAATTA 24% conserved"
repeat region 30475..30484
/note="2.0 copies 5 mer CCTAG 20% conserved"
repeat region complement(30615..30902)

repeat region /note="AluSx repeat: matches 3..292 of consensus"
30615..30624
/note="10.0 copies 1 mer T 20% conserved"
repeat region 30846..30855
/note="2.5 copies 4 mer CTGC 20% conserved"
repeat region 30960..30972
/note="2.2 copies 6 mer ATATTT 26% conserved"
repeat region 31037..31047
/note="2.2 copies 5 mer TGAAC 22% conserved"
repeat region 31049..31205
/note="L3 repeat: matches 1315..1471 of consensus"
repeat region 31691..31701
/note="2.2 copies 5 mer GGAGG 22% conserved"
misc feature complement(31914..32511)
/note="match: GSS: Em:BH609834"
repeat region complement(32486..32620)
/note="MIR repeat: matches 18..153 of consensus"
repeat region 32635..32647
/note="2.6 copies 5 mer CTCTC 26% conserved"
misc feature 32941..33564
/note="match: GSS: Em:AG087240"
repeat region 33008..33102
/note="MIR repeat: matches 2..102 of consensus"
repeat region complement(33113..33228)
/note="L2 repeat: matches 3176..3313 of consensus"
repeat region complement(33296..33702)
/note="MLT1J2 repeat: matches 3..447 of consensus"
repeat region 34127..34395
/note="LTR16C repeat: matches 217..491 of consensus"
repeat region 34442..34468
/note="1.9 copies 14 mer TTAATATTTGATAT 54% conserved"
repeat region 34445..34468
/note="3.4 copies 7 mer ATATTTG 39% conserved"
repeat region complement(34614..34786)
/note="MER5C repeat: matches 1..204 of consensus"
repeat region 34616..34635
/note="20.0 copies 1 mer A 40% conserved"
repeat region 34922..34937
/note="2.3 copies 7 mer ATTTACA 23% conserved"
repeat region 35912..35939
/note="7.0 copies 4 mer TGTT 40% conserved"
repeat region 35964..35975
/note="2.0 copies 6 mer GGAGAA 24% conserved"
repeat region 35981..36002
/note="22.0 copies 1 mer A 44% conserved"
repeat region 36059..36068
/note="2.5 copies 4 mer TCAC 20% conserved"
repeat region 36134..36144
/note="2.2 copies 5 mer TGA CT 22% conserved"
repeat region complement(36698..36831)
/note="L1ME3A repeat: matches 6043..6165 of consensus"
repeat region 36832..36965
/note="L1ME1 repeat: matches 6011..6164 of consensus"
repeat region 36963..36972
/note="2.5 copies 4 mer AAAT 20% conserved"
repeat region complement(36986..37465)
/note="L1ME3A repeat: matches 5521..6021 of consensus"
repeat region complement(37559..37653)
/note="L2 repeat: matches 3144..3244 of consensus"
repeat region 37630..37641
/note="3.0 copies 4 mer AATG 24% conserved"
repeat region 37709..37725
/note="2.1 copies 8 mer ATGGGACC 25% conserved"
repeat region 37960..38052
/note="L1M4 repeat: matches 5719..5810 of consensus"

repeat region 38141..38497
/note="MLT1A repeat: matches 12..365 of consensus"

repeat region 38703..38713
/note="11.0 copies 1 mer A 22% conserved"

repeat region 38716..40318
/note="L1MA7 repeat: matches 3866..5480 of consensus"

repeat region 40328..40617
/note="AluSq repeat: matches 1..290 of consensus"

repeat region 40617..40629
/note="2.2 copies 6 mer ATAGAT 26% conserved"

repeat region 40623..40699
/note="19.2 copies 4 mer ATAG 140% conserved"

repeat region 40687..41480
/note="L1MA7 repeat: matches 5480..6287 of consensus"

repeat region 41051..41069
/note="1.9 copies 10 mer GAACATGGAT 29% conserved"

repeat region 41478..41487
/note="2.5 copies 4 mer AATT 20% conserved"

repeat region 41503..41512
/note="5.0 copies 2 mer AT 20% conserved"

repeat region 41680..41726
/note="2.2 copies 21 mer ATGTGAGTTCACAGCCGGCAT 76% conserved"

repeat region 41785..41798
/note="3.5 copies 4 mer ACTC 28% conserved"

repeat region 42030..42046
/note="2.1 copies 8 mer CTCTCCTG 34% conserved"

repeat region complement(42160..42306)
/note="MIR3 repeat: matches 6..166 of consensus"

repeat region 42598..42657
/note="L1MC1 repeat: matches 19..79 of consensus"

repeat region 42678..43070
/note="MER57A repeat: matches 8..403 of consensus"

repeat region 42947..42967
/note="1.9 copies 11 mer GCTGGAGTGTT 42% conserved"

repeat region 43071..45020
/note="L1MC1 repeat: matches 739..2835 of consensus"

repeat region 43352..43361
/note="2.5 copies 4 mer AAGA 20% conserved"

repeat region 43431..43445
/note="3.0 copies 5 mer GACTG 21% conserved"

repeat region 43526..43540
/note="3.0 copies 5 mer AACAG 21% conserved"

repeat region 43627..43637
/note="3.7 copies 3 mer AAT 22% conserved"

repeat region 43902..43911
/note="5.0 copies 2 mer GA 20% conserved"

repeat region 44229..44242
/note="2.3 copies 6 mer ATATCT 28% conserved"

repeat region 44236..44246
/note="2.8 copies 4 mer TATC 22% conserved"

repeat region 44319..44331
/note="2.2 copies 6 mer AGAATT 26% conserved"

repeat region 44794..44805
/note="2.0 copies 6 mer AGTAGC 24% conserved"

repeat region 45043..45427
/note="L1MC1 repeat: matches 2894..3283 of consensus"

repeat region 45361..45375
/note="2.5 copies 6 mer AAATGA 30% conserved"

repeat region 45428..48615
/note="L1MC1 repeat: matches 3487..6608 of consensus"

repeat region 45700..45710
/note="2.2 copies 5 mer AATTG 22% conserved"

repeat region 45705..45720
/note="2.3 copies 7 mer AATTAAT 23% conserved"

repeat region 45838..45847
 /note="3.3 copies 3 mer ATT 20% conserved"
repeat region 45966..45976
 /note="2.2 copies 5 mer CAAAT 22% conserved"
repeat region 46056..46066
 /note="2.8 copies 4 mer AATT 22% conserved"
repeat region 46159..46170
 /note="12.0 copies 1 mer A 24% conserved"
repeat region 46663..46686
 /note="24.0 copies 1 mer A 21% conserved"
repeat region 46666..46684
 /note="3.8 copies 5 mer AAAAC 38% conserved"
repeat region 47369..47380
 /note="2.0 copies 6 mer ATTAAA 24% conserved"
repeat region 47553..47579
 /note="6.8 copies 4 mer AAAT 54% conserved"
repeat region 47690..47699
 /note="3.3 copies 3 mer ACA 20% conserved"
repeat region 48093..48116
 /note="2.4 copies 10 mer GCTATCCAGT 39% conserved"
repeat region 48639..48649
 /note="11.0 copies 1 mer A 22% conserved"
repeat region 48671..48681
 /note="2.2 copies 5 mer CAAGG 22% conserved"
repeat region 48949..48974
 /note="6.5 copies 4 mer AAAG 25% conserved"
repeat region 49032..49045
 /note="3.5 copies 4 mer AAAC 21% conserved"
repeat region 49159..49169
 /note="5.5 copies 2 mer CA 22% conserved"
repeat region 49196..49205
 /note="2.5 copies 4 mer CAGC 20% conserved"
repeat region 49336..49347
 /note="2.0 copies 6 mer ACAGGG 24% conserved"
repeat region 49684..49700
 /note="2.1 copies 8 mer TTCCCAA 25% conserved"
repeat region 49881..49892
 /note="2.4 copies 5 mer AAAAG 24% conserved"
repeat region complement(50138..50332)
 /note="MLT1J repeat: matches 110..316 of consensus"
repeat region 50333..50631
 /note="AluSx repeat: matches 1..296 of consensus"
repeat region complement(50632..50674)
 /note="MLT1J repeat: matches 70..110 of consensus"
repeat region 50670..50692
 /note="23.0 copies 1 mer A 46% conserved"
repeat region 50986..51107
 /note="L2 repeat: matches 3200..3311 of consensus"
repeat region 51192..51203
 /note="2.4 copies 5 mer TCTTT 24% conserved"
repeat region 51254..51496
 /note="MIR repeat: matches 23..248 of consensus"
repeat region 51509..51520
 /note="2.0 copies 6 mer AAGTAC 24% conserved"
misc feature complement(51715..51941)
 /note="match: STS: Em:Z94397"
repeat region 52070..52083
 /note="3.5 copies 4 mer ACAG 28% conserved"
repeat region 52943..52971
 /note="1.9 copies 15 mer TTCAGTATGAACTA 42% conserved"
repeat region 53151..53165
 /note="2.1 copies 7 mer AGTATTT 30% conserved"
repeat region 53181..53190
 /note="3.3 copies 3 mer CTT 20% conserved"
repeat region 53481..53498

repeat region /note="2.0 copies 9 mer AGTAATTGC 27% conserved"
53889..53900

repeat region /note="2.0 copies 6 mer AATTTA 24% conserved"
53985..54005

repeat region /note="1.9 copies 11 mer TTAATCATGCC 33% conserved"
complement(54226..54316)

repeat region /note="MIR3 repeat: matches 93..183 of consensus"
54679..54692

repeat region /note="2.0 copies 7 mer AGGTCTC 28% conserved"
complement(55373..56126)

repeat region /note="L1ME1 repeat: matches 5301..6016 of consensus"
55768..55788

repeat region /note="3.5 copies 6 mer ATGTAT 33% conserved"
55800..55811

repeat region /note="2.0 copies 6 mer GTATAT 24% conserved"
55826..55837

repeat region /note="2.0 copies 6 mer GTATAT 24% conserved"
55862..55876

repeat region /note="2.5 copies 6 mer CCATCT 21% conserved"
55897..55906

repeat region /note="2.5 copies 4 mer CATA 20% conserved"
55900..55911

repeat region /note="2.0 copies 6 mer ACATAC 24% conserved"
56128..58383

repeat region /note="L1PA11 repeat: matches 3889..6164 of consensus"
57003..57014

repeat region /note="2.0 copies 6 mer TGGTAC 24% conserved"
57038..57049

repeat region /note="2.4 copies 5 mer GAACA 24% conserved"
58422..58442

repeat region /note="4.2 copies 5 mer AAAAT 33% conserved"
complement(58464..58568)

repeat region /note="L1ME1 repeat: matches 4385..4484 of consensus"
58465..58474

repeat region /note="2.5 copies 4 mer TTTC 20% conserved"
58569..58953

repeat region /note="MLT1B repeat: matches 5..390 of consensus"
complement(58954..59374)

repeat region /note="L1ME1 repeat: matches 3984..4385 of consensus"
58973..58988

repeat region /note="2.7 copies 6 mer TTTCAG 25% conserved"
59002..59013

repeat region /note="2.0 copies 6 mer TACAAA 24% conserved"
59144..59153

repeat region /note="10.0 copies 1 mer T 20% conserved"
complement(59375..59670)

repeat region /note="AluSx repeat: matches 1..296 of consensus"
59375..59386

repeat region /note="12.0 copies 1 mer T 24% conserved"
59554..59565

repeat region /note="2.0 copies 6 mer ATGGAG 24% conserved"
complement(59671..60619)

repeat region /note="L1ME1 repeat: matches 2944..3984 of consensus"
59751..59761

repeat region /note="2.8 copies 4 mer ATTG 22% conserved"
60398..60412

repeat region /note="3.8 copies 4 mer TTTG 30% conserved"
60724..60733

repeat region /note="2.5 copies 4 mer CAGA 20% conserved"
60854..60864

repeat region /note="2.2 copies 5 mer AATAG 22% conserved"
60964..60975

repeat region /note="2.0 copies 6 mer GGAGAA 24% conserved"
61069..61096

repeat region /note="2.3 copies 12 mer TTTTGGGGCTTT 38% conserved"

repeat region 61090..61104
/note="15.0 copies 1 mer T 30% conserved"

repeat region 61102..61142
/note="MLT1K repeat: matches 550..588 of consensus"

repeat region 61219..61270
/note="L2 repeat: matches 3148..3199 of consensus"

repeat region 61535..61555
/note="1.9 copies 11 mer GACAATGTTCT 35% conserved"

repeat region 61577..61586
/note="2.5 copies 4 mer TTAC 20% conserved"

repeat region complement(61638..62601)
/note="MER45B repeat: matches 4..1038 of consensus"

repeat region 61670..61681
/note="2.0 copies 6 mer AAAATG 24% conserved"

repeat region 62100..62114
/note="3.0 copies 5 mer GAAAA 30% conserved"

repeat region 62196..62214
/note="4.8 copies 4 mer TTCA 22% conserved"

repeat region 62650..62660
/note="2.2 copies 5 mer TTTGT 22% conserved"

repeat region 63923..63934
/note="2.0 copies 6 mer CATCTA 24% conserved"

repeat region 64159..64616
/note="HAL1 repeat: matches 2..462 of consensus"

repeat region 64516..64526
/note="2.2 copies 5 mer CACAG 22% conserved"

repeat region 64698..64708
/note="2.2 copies 5 mer TTCCC 22% conserved"

repeat region 64741..64787
/note="23.5 copies 2 mer CA 85% conserved"

repeat region 64797..64808
/note="2.0 copies 6 mer AGATTT 24% conserved"

repeat region 64975..64987
/note="3.2 copies 4 mer ATGA 26% conserved"

repeat region 65055..65549
/note="HAL1 repeat: matches 986..1516 of consensus"

repeat region 65205..65223
/note="3.2 copies 6 mer GCAAAA 29% conserved"

repeat region 65305..65318
/note="7.0 copies 2 mer AG 21% conserved"

repeat region 65589..65838
/note="MER45C repeat: matches 1..261 of consensus"

repeat region 65916..66134
/note="MER45C repeat: matches 706..953 of consensus"

misc feature complement(65987..66472)
/note="match: GSS: Em:AQ538453"

repeat region 66165..66174
/note="10.0 copies 1 mer T 20% conserved"

repeat region 66558..66719
/note="L3b repeat: matches 1406..1580 of consensus"

repeat region 67189..67200
/note="2.4 copies 5 mer AAGGA 24% conserved"

repeat region complement(67370..67969)
/note="MER41B repeat: matches 1..634 of consensus"

repeat region 67478..67494
/note="2.1 copies 8 mer TAAAAGAA 25% conserved"

repeat region 68298..68309
/note="2.0 copies 6 mer TCACCA 24% conserved"

repeat region 68299..68318
/note="2.2 copies 9 mer CACCATCAC 40% conserved"

repeat region 68327..68362
/note="18.0 copies 2 mer AC 27% conserved"

repeat region 68364..68373
/note="2.5 copies 4 mer CATG 20% conserved"

repeat region 68405..68415

repeat region /note="2.2 copies 5 mer ACAA 22% conserved"
68443..68453

repeat region /note="2.2 copies 5 mer AGGAA 22% conserved"
69224..69233

repeat region /note="2.5 copies 4 mer TATG 20% conserved"
69387..69396

repeat region /note="2.5 copies 4 mer CAAG 20% conserved"
69403..69415

repeat region /note="2.2 copies 6 mer AGAACA 26% conserved"
69603..69613

repeat region /note="2.8 copies 4 mer CTTC 22% conserved"
69620..69847

repeat region /note="MLT1L repeat: matches 362..614 of consensus"
69906..69916

repeat region /note="11.0 copies 1 mer T 22% conserved"
complement(69941..70137)

repeat region /note="L1MA4 repeat: matches 6105..6300 of consensus"
70144..70156

repeat region /note="2.2 copies 6 mer CTTTTG 26% conserved"
70242..70256

repeat region /note="5.0 copies 3 mer ATA 21% conserved"
complement(70306..70409)

repeat region /note="MIR repeat: matches 20..145 of consensus"
70488..71104

misc feature /note="match: GSS: Em:AG054326"
70763..70970

repeat region /note="MIR repeat: matches 7..231 of consensus"
complement(71093..71538)

repeat region /note="MLT1H repeat: matches 61..522 of consensus"
71160..71170

repeat region /note="2.8 copies 4 mer GTTG 22% conserved"
71237..71246

repeat region /note="2.5 copies 4 mer TGGC 20% conserved"
71319..71328

repeat region /note="3.3 copies 3 mer CTC 20% conserved"
71462..71476

repeat region /note="3.0 copies 5 mer CCCAG 21% conserved"
71697..71718

repeat region /note="5.5 copies 4 mer TTGT 28% conserved"
71698..71720

repeat region /note="3.8 copies 6 mer TGTTTG 30% conserved"
71997..72007

repeat region /note="2.2 copies 5 mer GCCAG 22% conserved"
72980..73015

repeat region /note="6.0 copies 6 mer CCCC GC 45% conserved"
73221..73231

repeat region /note="2.8 copies 4 mer AGAA 22% conserved"
73694..73716

repeat region /note="11.5 copies 2 mer CA 37% conserved"
73726..73736

repeat region /note="2.2 copies 5 mer TGGAT 22% conserved"
73737..73748

repeat region /note="2.0 copies 6 mer CCCAAG 24% conserved"
73832..73842

repeat region /note="2.8 copies 4 mer GGGA 22% conserved"
74777..74788

repeat region /note="3.0 copies 4 mer TGGC 24% conserved"
75004..75017

repeat region /note="3.5 copies 4 mer GGGA 28% conserved"
75333..75357

repeat region /note="25.0 copies 1 mer A 50% conserved"
75705..75715

repeat region /note="3.7 copies 3 mer CTC 22% conserved"
76973..77273

repeat region /note="AluSx repeat: matches 1..298 of consensus"

<u>repeat region</u>	77258..77273
	/note="16.0 copies 1 mer A 32% conserved"
<u>misc feature</u>	77384..77797
	/note="match: GSS: Em:AQ237590"
<u>repeat region</u>	77399..77599
	/note="MER20 repeat: matches 1..218 of consensus"
<u>repeat region</u>	77714..77727
	/note="2.3 copies 6 mer TACTTT 28% conserved"
<u>repeat region</u>	78125..78136
	/note="2.4 copies 5 mer TTGTC 24% conserved"
<u>repeat region</u>	78258..78269
	/note="2.0 copies 6 mer TTATTC 24% conserved"
<u>repeat region</u>	78968..78989
	/note="2.8 copies 8 mer AAAGAAAA 35% conserved"
<u>repeat region</u>	79074..79286
	/note="L1ME1 repeat: matches 4184..4392 of consensus"
<u>repeat region</u>	79287..79572
	/note="AluJb repeat: matches 3..306 of consensus"
<u>repeat region</u>	79476..79488
	/note="2.2 copies 6 mer GAGGCT 26% conserved"
<u>repeat region</u>	79549..79572
	/note="24.0 copies 1 mer A 21% conserved"
<u>repeat region</u>	79551..79575
	/note="4.2 copies 6 mer AAAAAC 43% conserved"
<u>repeat region</u>	79552..79571
	/note="4.0 copies 5 mer AAAAC 31% conserved"
<u>repeat region</u>	79573..79926
	/note="L1ME1 repeat: matches 4392..4760 of consensus"
<u>repeat region</u>	79642..79652
	/note="2.8 copies 4 mer GAAA 22% conserved"
<u>repeat region</u>	79800..79813
	/note="2.3 copies 6 mer CTGACT 28% conserved"
<u>repeat region</u>	79933..80076
	/note="L1ME1 repeat: matches 5148..5306 of consensus"
<u>repeat region</u>	80092..80105
	/note="2.3 copies 6 mer ATTTTT 28% conserved"
<u>repeat region</u>	80103..80114
	/note="6.0 copies 2 mer TA 24% conserved"
<u>repeat region</u>	complement(80117..80382)
	/note="AluJo repeat: matches 35..288 of consensus"
<u>repeat region</u>	80283..80295
	/note="2.6 copies 5 mer TTTAT 26% conserved"
<u>repeat region</u>	80383..80400
	/note="18.0 copies 1 mer A 27% conserved"
<u>repeat region</u>	80404..80421
	/note="2.2 copies 8 mer AATTTT 36% conserved"
<u>repeat region</u>	80433..81196
	/note="L1ME1 repeat: matches 5325..6148 of consensus"
<u>repeat region</u>	80691..80702
	/note="3.0 copies 4 mer TTAA 24% conserved"
<u>repeat region</u>	81117..81130
	/note="4.7 copies 3 mer GTG 28% conserved"
<u>misc feature</u>	81225..81678
	/note="match: GSS: Em:AQ667566"
<u>repeat region</u>	81241..81445
	/note="MER3 repeat: matches 1..208 of consensus"
<u>repeat region</u>	81369..81386
	/note="3.6 copies 5 mer TTTCA 27% conserved"
<u>repeat region</u>	81382..81401
	/note="2.0 copies 10 mer AATTAACTG 31% conserved"
<u>repeat region</u>	81416..81430
	/note="2.1 copies 7 mer TAGCTAC 30% conserved"
<u>repeat region</u>	81584..81881
	/note="AluSx repeat: matches 1..300 of consensus"
<u>repeat region</u>	81791..81802

repeat region /note="2.0 copies 6 mer CAGAGG 24% conserved"
 81864..81881
repeat region /note="18.0 copies 1 mer A 36% conserved"
 82185..82207
repeat region /note="1.9 copies 12 mer AAGAAAATACAC 37% conserved"
 82374..82682
repeat region /note="AluJo repeat: matches 4..301 of consensus"
 82664..82682
repeat region /note="19.0 copies 1 mer A 38% conserved"
 82914..82923
repeat region /note="2.5 copies 4 mer ATGT 20% conserved"
 83196..83772
repeat region /note="HAL1 repeat: matches 780..1357 of consensus"
 83702..83716
repeat region /note="3.8 copies 4 mer AAAT 21% conserved"
 83787..84109
repeat region /note="HAL1 repeat: matches 1417..1762 of consensus"

ORIGIN

1	caccaggctg	cacaccaacc	cttccccaga	ccgcgattcc	gacaagagac	ggggcaccct
61	tcattgcaaa	gagatttccc	cagatccttt	ctccttgatc	taccaaactt	tccagatctt
121	tccaaagctg	atatcaatgg	gcagaatcca	aatatccagg	taattcttgg	cacctggaag
181	atgggagata	acaaaacagt	ccatcttttg	ttttctgatg	attccagtgg	aaactgctgc
241	cttacctcac	ttttcttctt	aaccctttaa	tgattcctgc	ttaagatcat	gttatctcca
301	taagaacagt	gctgcatttc	atatagtgac	acccttgatt	gtgagatgca	caattatttt
361	gtgaaccact	caaaagaaga	aaacactacc	aattaaagta	tgacacacca	aggattacaa
421	gatacatact	aatttaagag	acagtgaat	ataaaagcaa	aacaaaacaa	aatagtctga
481	aatataaaaa	caaaacaaaa	caaaattgat	gaaatgtggc	cgttatagga	aaaggccaat
541	ctgacctgtg	aatagattgg	gcaaatgttt	tcaaatatga	gttcaaagca	ctcaggaaag
601	ctgtttctct	tagtgcccct	ctaaaactgc	cttggacacc	agaaaattcct	tcacaaagag
661	acaagcttcc	gttactctaa	agtatacatg	acttacaaaa	caataagagg	aagggaagtg
721	agaacaggag	ttcctaggag	agagatgact	atcttccact	aagttgggat	ctgatgaagc
781	agtgggaaat	gggagggttag	ggaaagggtg	actgggggta	aaaataataa	ccctcaccta
841	cactgaaata	gctcagtata	ctttacaaaag	caaatgttga	tcggatttga	ccctcccaac
901	accctcatga	aggagacaaa	gcccgtgtca	tttttcta	actattggta	atgcaccaga
961	tactcaggaa	gttactgttt	ggtttaccca	aagtcacatg	gcagtaaata	gtagttag
1021	ggctcaaatc	caggctctca	gactcccaac	ccacattcag	aggcaaactc	ctaattttga
1081	atgttggttg	tacctttctc	tgtttcctcc	caaagatgg	ccccatgatg	gttgagagag
1141	gctcatcccc	cgggcaaccc	agcccctatc	caactctcgt	cctcatatgc	ctgcttccat
1201	atttttttta	aagatggcct	cactcagtca	cccagggttag	aatacaatgg	cacgatcata
1261	gcttactgca	tgcagcccct	acctcccagg	ctcaagcgat	cctcccacct	cagcctcccg
1321	agtagctgga	acttcaagt	tggtgccccca	catccagctc	atttttta	attttgtaga
1381	aacagggttt	tgccatatcg	ctcaggctgg	gctcaaaactc	ctggggtcaa	gcatccccc
1441	tgctcagcc	tgccaaagt	ctgggattac	aagtatgagc	caccacagcc	agcccatact
1501	tgtaagcttt	gcttccaatt	ctttctattt	gtataggtgc	accttttctg	tactttttcc
1561	tctctggacc	aaatgccaat	ttgcttacat	agcagaaagt	tctgaaactt	ggactcagac
1621	caattgatcc	ttcattaact	gcctctctct	ccacagacta	acaccctctg	catgatacgg
1681	ttttagatca	ggtttcgttg	acctgagttg	ttttgctctt	aacaccagca	tcatgggagc
1741	acgcaaatct	cactgagaac	acttggaata	ccaacccccg	ctgtatataa	aatgctgcat
1801	taggttatag	gaaattgaaa	aatgtaagac	ctgttccctc	caataaatta	gatctgtgtg
1861	aagatcccag	ctaccacata	aaacagtgtc	ggaggggatca	tgaagacaga	ggaggaaaag
1921	cactgtgtcc	caaggggggtg	gatctcaata	gggtggaaaga	agtcggacag	gctctattga
1981	tggtcacagag	tgacaaatat	tttgagggtc	actctttgac	aacccatgca	cagaaatcac
2041	tacaagcccc	agttaaaatt	tctggtgagt	ctgtgattgt	tttaattgat	aaattggaaa
2101	aacaggcctt	tggctccaat	ggcccctctc	cagggaactgg	ccacgtgggtg	tgataaagag
2161	caatggaacc	cttttgaata	ggtgcagatt	ggcaaggaag	gcaactgactt	cataccgttg
2221	ctcaaccttg	tttcctatca	tggtctatcc	atgtgtttat	agatgttctg	gttccagaat
2281	caggcagttc	tcacccaag	ggtgttttagg	ccatgcccac	aacaatctga	agcctgtgtg
2341	ggctagcgct	ttttcccaga	gggtgggaatg	tcacttgggg	cataatgctg	aggactgagc
2401	tataatatca	gtgtaattga	tttaagaatt	actaacgcaa	agtcatagga	aaatgcctgg
2461	atgcggggaga	acggaaggct	gccggggact	gttccttcat	tggaaggtta	ttggctgctt
2521	tgtgcttgaa	cccaatttca	gacagaactt	cttgggatcc	cctttctgtc	ttctagataa
2581	atccatctgt	ctgaaaattc	ccattcccta	cctagacctc	acttgggtct	tttttatttt
2641	attttatttt	attttatttt	attttatttt	gacaagggtct	ttctttgtca	cctatgctac
2701	ggtacagttg	tgcaatcatg	gcttggtgag	gccttgaact	cctgggctca	agtgatcctc
2761	ctacctcagc	ctcctgagta	gctgggacta	caggtgtgag	ccaccatgcc	tagctaattc

```
2821 tttttatattt ttgaagagac caggcctcac tgtgttgccc aggctggtct caaactcctg
2881 gcctcaagta attttcctgc ctcagcctct caaaatgcgg ggattataga catgagtcac
2941 tgcaactgac ctgtctttta aaaatattac ttaaataatta gggaaaagct atagcgtaaa
3001 ggctgaaagg cagttgggac tcccagagct gggaacccca gttacccttt gtacagcaaa
3061 gatcaccgta actcccaaga ataaagggtt accatagctc cagatgtgaa tgttattggc
3121 caaatggatt aaaaaattaat gcgggtccag cctagctact gtcaaagtca acaaatcaaa
3181 aagagtaagc caacaatata tttttgccta ctgccagtc aagttattct atttctgctc
3241 tatacaatcc ctatcggtta attttctgtg agcaatacag aggggtggag ggtggccagc
3301 attttattga tctgatgacg ttttggccct gaagaaaata aaattgtggt gcgtttctgg
3361 ccttctgttt gtggaagacc acaaaatgtt agtattggtc actcagaaag atgttcaaa
3421 aaagaataaaa acaactgcta cccctgggag ccccgccctt ctgttggcgt gtaatttgtt
3481 gtgtgtgtgt gtgtatgtgt gcatgtgcat gcacacaaac acaccacac accacacagc
3541 actagctgct gcagcccat gcaccactgc acttgtgtaa accagttccc tgggtggtct
3601 ttaaaacatg aggtgctttc tacaaggagg tgatggtttc cgtgttgga gccctcacc
3661 cttcctcaga gcactgttct tttgttgaaa tccactggtt tgacacagg ccatcagc
3721 ccagcagaca gccctgctgg tccctgacgg tccctgccgg ccccgtaaaa gcattccctc
3781 tccctgggta gcagagttaa gtcaggtgag gggcccttca gtaggtcagc ttccgtgccc
3841 agggctcctg gcctcatctg ccccttcccc tggcaacctg cctttgcccc catctggttc
3901 tccctagctg gagcctggga gctgaatggg aacttgatac ccgccttccc ctccgcacct
3961 cccacccctt tcaggctctg gaagtgtttc ccacgtcca gggctaagga aacagcctgc
4021 acctttccaa agtgacatcg ctaagcccat gcaagagtcc acgtcccgcc cctctccac
4081 tccccgcccc ccccgcccc gcggccggg cctcttgact ttcaggatag gaaatccttc
4141 taaaagcccc aacactgtc tctgcagagc attttaact ccagaagtca ggcagcctc
4201 gtcccaagtg aatcagacaa ttctatatta agactggctt caagctgtgg aagtgaggag
4261 gggaagaaaa tgcgcaaaat agaacaaaaa tgggtctcaga ctactaaact gacttccat
4321 atgaaattta aaacaatata agaggttggg ttttatcaaa aacaaaaatc attcaggaaa
4381 gaaagtaaat ccccagaaac aagttagact ttggtatcct tggctgggtt ttcagtctgc
4441 agctgatagt cagatatcag agacaaaaat ctctgaaata aatgcactgt taggcttact
4501 acattgggtc attactacac tagctattca caaccaaaat attctctttt ctggatcaag
4561 ttgagattag tattcatttc aacctatata tttatttctt ttctcccat aagacggact
4621 taataaatag catgtaaagg ccttttttct cttgcacaga catattaaca tggccacagg
4681 cctcttgagc gccacaagat acaatcagat gagtggcca ggttacagt tgtcgtgtc
4741 tctacttttg attttgctc ctctttttc tctaaaatac ttttagagga atggcaggtc
4801 tggctggata agaatcaaga aatttctctg cccaagacat ggacccatgc ccctatagag
4861 acaagcctgt tcggctcaga ttctcatggg gtactgctgc caatatatgg aggcagattg
4921 gcttggtgtt gggatcaggc accaccattt agtcagccag acttgacctc cgtagcccca
4981 tgccgggttac tggatgtcct tgtgcctcag tttccttgct tataaaaattg gaatgacaat
5041 actacatatg agcagctatg tagtataata ctatatataa gtgtgattat ctgtgaggat
5101 tcaatgagat catccatatg aagtgcctag cacagggccc agtataggat aagcttccta
5161 gaacggatag atgctcgttg gtgagatgaa gatgacaaag gatgacaaag taaatgtaca
5221 aaaaattaat tgggaatcag aagaactggt tcagagacca acactacatc ttccttgctg
5281 tttacctcgg gaccttgaat tctccaagcc agtttccgtc cctgaaaatt gacttaagt
5341 tgtgtagaag ggacagtaat gcctagattg gcgtgctgca agtctcaaag cagtaactac
5401 agttagctgg ggttgccacc cttgttctta gagcatcagc aggtgtgaga agaggaatt
5461 agatatcttc ctagtccatt ttgtgttctt tccatggcag ttatcgagga agaaggggta
5521 gaataatctg gatttaaaac ccttgttgga gacaggtcct tcaatgctct gtgctcctga
5581 ggaaatcctt ttcctctctg gaaaaacct gccactccc accagtttcc acagctcaca
5641 aggccttagag gaccaacaag caagaaggct ttcctgagtt tgaagagcat ggcctctgta
5701 ttctcagtg gcttgggtta ttatcaccta gactgagaat ggtgtgggtt tccctatggg
5761 aagtgcattt ccgagcaaga atcaagagtt tgcttctagt caatgtatta attttcaaga
5821 gaaggaaagc tgatcaaggt gcattggaac ttttctcgt ttcttaagac agaattatcg
5881 aaatgggcac ttcttttgga ctctctttct tggagctggg gagattgtgc cagaaattga
5941 acttgaggct tttgaaagag ttccctttct tttatcatca tgacttgagt gtgaaaaagt
6001 ccagaagaaa aaaatatact aagacacttc aattatgtgt gttaaggatg agaaaggacg
6061 gtaagatcta gagactttgt cagtttgga atctgtgctc actccacacc tacagttcat
6121 cacattgatc attgttcaag acatctttat caacggattc tttgatgcta aaaagcatgt
6181 aaatagaatg agagcaatag gaaacataaa acgagccctc gccattggag aagttatgta
6241 tcacactcat taagtctttt taattggatg cctatgaaac ctcaggctca agattagatt
6301 tcttcttttg atatcagcat gaggttttca ctttgttaac tgtagggaag ggtgcggtg
6361 atcctaagat ttgttggttt gtgttttgtt tttgttttag ttcagttgag gcagtggtta
6421 gcaattaagg ggaaaaataa acctctaagt gttgagattt agtcatcgat atagcttttg
6481 gagtaaatat gtattttgct actcattgcc tggccaggca acaagtctat tttgtttgga
6541 tctgagcagc agtttggaaga aaaaaaaaaa catattgacg gtaatagctt gaaacatgaa
6601 attgttttta ttcccagctt ggagaaattg cagggcacgt tttgtttaag caatcccttt
6661 gactccagtc tgaatacaaa tggaaatacca aaagtgttgg gcacattccc tcttatctcc
```

6721 taccagaga ctgatttcat taccataatt gtgggttgc ctgggtcttg gcagcctctc
6781 ccctccaaga cccttaatag ccttgcagac gattgttgca gctcagttcc ctcagatggg
6841 gctgcagaga agaaagggtta tgtctccaaa ggctcagcat cgccctgtca ctgcccagct
6901 tgggtcgggt ctaccagct gtgtgtctct tctccacttg tctttctgag cttctgtgtg
6961 ggtccctgtt accattactc tcccacgacc attcattcca gcaaatagca atgatacaag
7021 atgtatgatg ttttcttttt ctttctttcc cccctaccct tttttttttt ttgatacttg
7081 ggattactga aaagctccac aattattttac aaatatgcaa aggggtgccta caagactgga
7141 gtaaggggtg tggcatgggg taaagctagt agtgcccttc taggtgtccc gtgacagagg
7201 agaaggggtg acttggcctg ctgcagcctg agtagactct ggggttgaaa gtcaccctct
7261 tgaccatgtg tccagactcc acaaaaccac agcccgggcc cattgggtgg gcaacatcat
7321 ttgaagttag cagaataatt caaacctccc cattcgtaac acaaaaggaa ggggttattt
7381 gtctcagggg tgggcacgcc ctggtgcaat ttggcagagc atctcagcaa ctctatcaga
7441 tgtcagggtt gggcaaaagt ggaaatgctg ctgcccagta catcttgggt tgattacttg
7501 gagtgcattg ttctgattca tttgcacata actcatccag ggggtgttgc aagagctatg
7561 cgatggccaa aggaacccaa tgcgtctttt attatgtttt ttaaacaagt ctctctacgt
7621 tgattgtctc ttggaaccaa gaagcttcat tcttccagcc ccgtgacaga cttcaaaatg
7681 agactttcat aaatctgaga acaagttcta gctttggctc caggactatc tgctctgacc
7741 ctaaggggtt gttgaggagt gtgaaggcta ggatgagcca tgggttgagt gaaaattgta
7801 gctgggaaaag cctcgtcttg aggagcttgt acttatgtct ctatacacc tgaaagcaac
7861 agccccacc tgacactgtg gtctttttgt ttctttggtc tcatgaggag acagttagct
7921 tgtcacttac tttttgagag acagtgtggc aaagttaggg acagcatggg ctctagaacc
7981 agactcccca tgtctgccac ttactagccc tgtgacttta ggcaagttgt tgatgtctct
8041 gtgcaccagt ttctcttggt ggtaaaagtt atctggcaat catctcaaaa cttaatagtt
8101 tgagacaatg accacgggat tgcgtgtggg caggaatttg actgggactc agctgggaga
8161 gcttgtctct gctccatgtg atgttggcta gaggactatc attgaggctg gaagatccac
8221 gatggcccta ctcacatgac tgaggcctca gagctagacg tgggtgagg gaccttggtt
8281 ctctccatg cagcctctct ctttacatgg tctctacaca tgtagtgtgc taggctaagc
8341 ttctttacat agcgttaga acattccaag agaataaaaa tgaaagctgt aaggcctctg
8401 ttaataacct tcaccattcc actcctaccc attctgctgg acagagtga tccatgggag
8461 aatgcagatc tccagggagg agaaatgggc tccacctctc tcaatgggag atgtggcaca
8521 caaaaacaca gatgggagg gtttacaaga gttaaataat acaggtggag catttaggat
8581 agtgcttggt acagagtttg tgttcataaa tgttatgttt tattataata tgattattct
8641 ggtatcactt caggaacaaa tatagtacat gtttacttcc tgagtgaag gcttctcaat
8701 accacatgga ggagagacaa actctccagg ctccagcccta ctcaaattcc taaccacag
8761 caatccaaca gtcattgttt ccagctatta agtttttagt catcagtaaa tcagggactc
8821 tagtgatgaa ttttccctc ccaaccctc gcatgttcc atctagccgt ggaattcttg
8881 tggaccatcc ctggaggttt tccattgtgt atcgccatgc aatctcagct ttcttcaca
8941 acggatgcat ccatcatttc cctctgccct ctgaccttt cttccaaggg tcatgtagct
9001 tggaggtgtg tgactccaca ctgacccag cctgttctga attcttcagg tcaccataga
9061 ggtggtcgac ggtcctgact ctgaagcaga taaagatcag catccggaga ataagcccag
9121 ctgggtcagtc ccatccccg actggcgggc ctgggtggcag ccttggccag ccttggccag
9181 ggcaaacagc ggggaccagg actacaagta cgacagtacc tccagcagca gcaacttct
9241 caaccccccc aggggtggtg accatacagc cccaggccac cggtcttttg aaaccaaaaga
9301 tcagccagaa tatggtgagt ttaccaccta gtaataataa attggtggga agaataaacg
9361 aggatgatgc cttggacatg gagccaagca aaaccctgct tagagcatgt ggcttttggg
9421 cttctgtgag gcaaacctca caaaggctgt cttccgcaga agcccaaagg aggcaccagc
9481 agccacattt ttctggaaag actataattt taaatcaaat cataatcact ataccaatta
9541 tccgaagaga taattttttt aggatctttg gggttctttc tgctccccc gccctcaaa
9601 tttcagtttt atttctaaaa atgaagaaat tctccaatta acttcttgt attttttact
9661 gtaaaaattc atcctgaaaa tcagtgtagt aaaagagata cgtacggctg cttcctttga
9721 ccaggcaact gtgttatgtt tgatactggc agtggagtgg tccttgggaa cccacatgaa
9781 cgtgtgtgtc tcaggctctc aaagtaacct cccccccca atacatttca aaactccaag
9841 ttgagagatc tggtttctct tgttttggga gtaggataag tgaggtaaca ccttccaaat
9901 tcagttagtt aaaataataa aagttcattt ctcaattgag ttgggttagga gaactcagct
9961 ccactcagtc attcagggat ccagcctcct cccatttttg agttccacca actgttaggg
10021 cctgagagtt atccccgga tattctgtgt ccagctggtg tccagggaag gaaagggagc
10081 ctggagaagg aacacacact cgtaaaggcc ctgagcctga ggtgacacac atcagatcta
10141 ctgaaattct gttgggaaga cctgggtcaca tggccccacc ttgggtgcaag ggaggctggg
10201 aaatgtattc tctgtgtgtc caagaaaaag aggaacccaa tttggcaagc atctggccag
10261 attttgtggg gaatcaggca gtttgttata aggatattta atgtcttaca aatgcacca
10321 tcgtcatgat tttctgtgtg cttcaccatc agtggacttt ggaatgagca gtatatgaag
10381 gggatgactt gtcttacacc atttgcatgc taaccttaat cccattttt caacagatag
10441 accaattgta tattagacag tcatctcttc tcattaatag agaattctaa gcaacttgca
10501 aaagaacaag acaaaaatat ttttttgcca catcatcagt tgttcaacca acatttatta
10561 agagcaaatg ctgtgtccag cactatgctg ggtacaaaaa tgagcaaggc atagtctgtc

10621	cccagaacag	atctcaccaa	tctgtggacc	aagggagaaa	attaaccaac	agagcaaaat
10681	agtgccatgg	tagagatgta	catcaaatgc	caggggaact	gaaagagaac	tctagaaggg
10741	atgtctcttc	tagccagcag	gctcatgaaa	ccttcacctt	tcccaaagga	agtcaagtta
10801	tctgctttcc	aagaggaaa	acgggataat	agccaacatt	taaatagtac	ttaccatgca
10861	ctagtccctg	ttcatggcgt	ttcacatata	ctatttcatt	aaatcagctc	tctgaagcag
10921	atactgcact	ttacagatgg	gaaaactaaa	gcctggaaaa	cttaagcaat	ttaacctgga
10981	gggctaagac	ctgagattca	ccccaggcag	tctgggtcca	gaatctgtcc	tcttgaccac
11041	tatacaattc	tgcttttctg	gggaaaaaag	tagcacacca	cttaggacag	tagaaggatc
11101	tagaaatgag	tgcttaggtt	ggaagatagg	aatgggagga	aaagatcagc	gccactgagt
11161	gagagaagca	cagaggaccg	cttgatgcca	gcctgagatt	gcacagcgtt	tgtggcttca
11221	cctgtttgcc	cagcccacac	agaacgttgt	ttctatgagt	agagctcaga	cacctggcat
11281	cagaatcatt	cagttgcatg	tttaaaaatg	ccaattctgg	gctgcagccc	cttccttatg
11341	taccagtagt	cctcaaagtg	tggcccccag	aaccagcacc	actagcatca	cgtggaaatg
11401	caaagtgttc	aagcctgact	ccagacctac	tgagtcagaa	actctggagt	gggaccacga
11461	aatccggttg	aacaagccct	ccaggcactc	tgctgcattg	cgcacctctg	ttttagatga
11521	atggttctcc	accttgattg	ctcattatac	tcacctgggg	aatttttttt	tcaatcccga
11581	tgccatgact	tctcccaga	ccagttgaat	tgggatctct	gaatatgggt	cccaggcatc
11641	gttgtctttt	aaagctccga	ggatgacttc	attgttcagc	ccgggttgaa	ggccactgct
11701	ctccatctcc	tgaatgagaa	ggctagaag	tgagacctgg	agtctgttgt	ttgcatcttt
11761	gtttctttcc	tttttcaatc	aaggtcacca	gatgattctc	ttgcacactg	aagtttgaag
11821	accaccacta	gaaacaactt	tttcatctaa	agcctttaca	gagtacagtt	tgctgaattt
11881	atgagcatta	agaacacccc	ctctatttcc	atcttgaggc	tagaatttgc	cctggggcag
11941	ttactgtggc	tacctcagcc	accctcacc	ccagcctcct	agacctagag	taccattgag
12001	ctcctcacat	caggagctcg	cagcatgcct	gggcatgga	gaagctccat	ctgtattat
12061	ttcaaaagtac	ctcctagtat	cttccccatc	attagactgg	acatcgggat	tgctacttta
12121	taaataaagt	cgtgttctgt	gcagtacctc	ttaaagcagt	cttctcagac	tttcatgtgc
12181	acatgaatag	ccccgggctt	tgtaaaaatg	caccttcgat	gcaataggta	taagaaaagg
12241	gcagaagcct	gggcgaagct	gagactgcta	gccctccgac	cacactttga	gtagcaaaac
12301	tctacgcca	ttgtagggtc	tcagttagcat	ttggcagaat	gaatgaatga	gtgatcattg
12361	cttcccagga	tagcccacat	tctggaattc	atcttttccg	gaattccata	cagcatcaga
12421	taaactgaga	attccccttt	tcttctgtgt	tttttattta	tttaattttt	ttaagacatg
12481	gagtcttgcc	ctgttgccca	ggctggagtg	cagtgggtcg	atcatagctc	actgaagcct
12541	ccaactcctg	ggctcaagca	gtcctcccac	ctcagcctcc	aaaagtgtcg	ggattttaat
12601	cccacagacc	cactttttat	gcagtcaaca	ggaaacttca	agcaatttct	aagtatttat
12661	ccctatattg	tgtgctgttg	tggaggaaac	agaaagagaa	catttcaccc	aggaaggaga
12721	ggttcatgca	atagcaaagc	agtgaagtc	actgtatctc	ggggcggtga	gcctcgtctg
12781	agacaggcta	aaattgccac	aggagctagc	ctttgtggag	gaggtagatc	tcagagtttt
12841	gaaggtagaa	tttttagtaa	gaatttatat	atttgtccgc	aaggattatt	tctaaaaatc
12901	ctaggtgaaa	tacatgtagg	atacaatggc	atctgtagaa	tgaattacaa	aatacacaa
12961	agaagacaga	ccccacttgt	gatgatgaaa	acacagatga	gatgatgctg	tgagtcagct
13021	caactgtgga	aagtatgtgt	ttgagatgct	gcattttaaa	tctcttctgt	gtagatactt
13081	ggggatcca	gggcaaagg	agagttccaa	ataaatatgt	tttgggtctaa	cagtagtata
13141	ccatttccag	aattgtttag	aatagcccac	ataatgaaat	tacataggta	ctgcttattg
13201	ttacttgggt	taggaccag	ttgaaattct	ctaactggtc	ataaccctat	tttaatagat
13261	ttcacagtga	ttttttttca	gtggttttcc	tttataatgt	ttaattatgg	ccacgtaaga
13321	gcgtatctta	aagccagagc	aacgtggg	agaatcaaaa	ctgctagaat	accaagctat
13381	ggaacaggat	acggtgggag	cagacagatc	ttagatctaa	ttccagctca	gccaagcttc
13441	acctgtgtga	ccttaggcaa	gtaccttaac	ctctctgagc	ctcagctctc	ctgcccataa
13501	aaagaggatg	tttccaccta	cctcacagg	ttgtttagag	agttaaatca	gtagatcgac
13561	agggcagctg	gttaaagcaa	gccctcagta	atcggtagac	actgtcatct	aggattagtg
13621	gtgcagggtt	actagtggcc	aagtcaagac	ccaagtcact	tcagttgccc	caccactatg
13681	actggcccac	aggacgctag	tgccctgaaa	ctaagaaaag	actactttaa	aactccagcg
13741	gcacccctga	aaccagctc	tcagcccact	gcactcggga	tagttttatt	tcctccttga
13801	gttatttgat	gtcacagcca	ggggctgtca	aagcaccata	tagatgctcc	caggaactgt
13861	tttttctctg	cgttgtcatt	atctttgtga	ttatagctgc	tcacattcat	tttctgctct
13921	gggcagtggc	ccctggtagg	tgagcaactg	agaacaggct	tgttttatta	tagcagaaa
13981	gagcactgcc	ctcaatgatt	tgtccctgtc	agaaatgccc	gttctgttct	ttgaagacat
14041	taaaacaaata	gaaatcccca	agaggagggt	ctttgcccgg	acattgatgg	gggcccgtgt
14101	gctgtgaaa	cttcaggggga	gtgagctcac	atacatactt	cttcctagga	ggcagtttca
14161	cttactgtgc	agcctcaata	gaaataatta	gccacatggc	gagttctatg	cctaactttg
14221	ggggacccat	atgaaaaaaa	tgtttgga	taaaatggct	ttgtgagcat	ttaaaaataa
14281	gatgtggaga	aagccactta	ctgcaataat	aaatccttga	tggcttcaga	gtctggcagc
14341	tgtctagaga	gtatatttta	gggaggattt	tatgggggat	ttgtaaatag	tagcttttgc
14401	tgcttagaaa	accacccccca	ggccaggcat	ggtgacgtat	gtctgtaatc	ccagcacttt
14461	gggaggccaa	ggcaggagga	ttgcctgaag	ccaggatttc	aaggctagcc	tgggcaacat

14521 agtgaaacct catctctata aaatTTTTTTT gaaaactttg gccaggcatg ttggcacatg
14581 cctgtagtcc cagctactca ggaggctgag gcaagaggat tgcttgagcc caggaattca
14641 gggctgcaat gagccatgat ggtgccactg cactccagcc taggtgacag agtgaaacct
14701 cgaaacagct taaaaaataa aaaagaaagg aaaaaaaaag ccaaccgcaa aattaaagga
14761 atgaaagagt tctctccctc acaagtcctg gggttgtctg gactcttctg gtctggtctg
14821 gactggcttg gctggggctg gatgggttag gctggcctca ctcacaatga ggggtgcccc
14881 gctgtgtaga tgctgtattg agatggctgg ggcctctctc cactggtccc tccccctcca
14941 ggaggctagc ctaggcactt cacgcttggg ggaagagttc cctgcagcaa gacggaatgc
15001 acgggcactt tgtatacctc agctggcatc ctatttgcta ttatcccatt ggccaaagca
15061 agtcatgtgg cccatcctgg aatcagcccg agaggggagt agccaagggc gtggatttgg
15121 aaagaggaaat tatgggcatg atttttcaca taatcggaca caataattaac atttaataat
15181 ttagatccaa gaaactataa caagaaagtg cctcatgcag ggattccaac acaagagagt
15241 ttaatgctaa aatacatagt ttaatgctaa aatctcaaag ttcaggggtg atgtctctcc
15301 aaatttgctc tctacattgc gataatggag aggccaggct gcatgagatt tctggatagt
15361 ggaggtccct ttgcttttgc aaagccaaga acaccatttg gcatcattgg gttatgtctt
15421 atgctggtag ccaccccaca ggtgatgcga actctaccta ggggatttaa taagatttct
15481 tctgacttac tcattcccc tttttatgag tataaaaaaca ttataatctt tacttttgac
15541 ctttttttag ctgttattcc ctttaacaaa atctggcctc ggtggtgtgt gcaggatgtg
15601 actgggtgag tgctcatgtg cgtatgacct gctgcacctg gatgcttctc tgacaagtgt
15661 gcaatttgtg gcttggtcca ggcacctctc tggtgccctt ggggaggtga ctgagagaca
15721 ccagactgca aagttctcgg tgggagcagc gactgctcct acctgagtggt tttctccatc
15781 cagaagcaac ttgtttctcc agtctactg tgtgataccc aataagagat ggtagagagg
15841 aaagaagcta atgccaggga aggcagccga atttcctgac acagagcatt agtttcaagc
15901 atctgcttag ctgagtgggt ggaaaaccat ttcttaggag aaaaatcaaa gttcagaaaa
15961 attctttttg ggggattggg aggaaaatag atggggcctc ggggggcaga taagattggg
16021 gcaagctctc cactcagagt tagggaggag gacacaacca tgaaatccac cccccaccac
16081 cccgctcctc caattccact tagtgactg agggagctcc acagccctgt gtttgcctga
16141 ggcattgtca gagtgaatgc catgtaaaaca acagcctgga aggctggcac gggcccat
16201 ttcaggtaga aacatgtgtg gactacattc ctgctgggcc tatgtaataa caatcgccac
16261 gacctgttat gaacagaggg tactccctcc cggcaagggg catgccttta gctccacgct
16321 tggcagcagc agagggccca aggccatagg aagatctggg taaaccagga gaaactgtca
16381 cagagcagag gtactgcaga aagaatcacg ctttagagag aaagggcgtg gtaccagagc
16441 cctgctttcc ttctgtttaa cccagtgcac ttgaaccagg catcctacca ctccaagact
16501 ttacttttga taagaggaac tcagtttgat aggtgtatta gtctattctc atactgctca
16561 tgaagacata cccgagactg ggtaatttat aaaggaaaaga gatttaattg actcacagtt
16621 ccacatggct ggggaggcct cacaatcatg gtggaaggca aaggaagagc aaagggacat
16681 cttacatggg gtcaggccag ggagagttag tgcaggggaa ctcccattta taaaaccatc
16741 agatctcgtg agacttattc actgccacga aaacaacatg gggaaactgc ccccatgatt
16801 cagttatctc cagctggccc cactcttgac acataggaat tattacaatt caaggtaga
16861 tgtgggtggg gagacagagc caaacatat caatagggtg ccaccctctc ccacacctc
16921 cactccaag cccccctatt tcttggccta cttttccttt ttgcacacca ctcatcaatt
16981 tctaacaatgc catctaattc acttgttttt tgtgtttatt gatgattgtt tctcttttct
17041 cactaaaata ttagttcctc caaggcaagg atctttgaaa gttgtactta atagtgtatc
17101 tcatgtacca agaattgtgc ctgacatata aaaagggttc aatagggtatt cactggatgg
17161 atgttgaaata atgacctga gggatcatct ctacttcac cattaatgta tcggtaattc
17221 attgctacac gtaacaaaat atcccaaagt tgggtggctta aaacaacaac cgtttattat
17281 ttctcatgat cctgtggctc aggagttagc gcagggccac tgggtaggta ctctgctcct
17341 gatggcaaca gctgcattca gctgtccact ggggaatggc agaaggcttg agaaggcttt
17401 gctcacatgt ctggtgtctg tagtccatgt ggctcctctc tgtccatgtg atgtccata
17461 attcacaggc cttagcatgga catctttcac agtaactgga tcccccaaag caaaagtcag
17521 aagctgccag gccttaaggc caaggccagc ccagattcta gagaaaatag attctcctct
17581 ctctctcttt ctctctgtat gtcaatgaga ggctataagc acagagaggg aaggaactga
17641 ggggtggttac ctttggaaac tgcctagcat attaccccat gctgtgcaaa tgtatgcatt
17701 ctacagtaagt gttttctggg caccttctag ggatgtacag accaccacag tgcccaaac
17761 ctcttctgctg tcacaaagct gatccctaaa tgagccctgg agctgtaaac ctttttagctc
17821 cagctgaaaa gtcctctcca gcaatcccct cccacagcga gaaggataga agtgaataat
17881 tgacaggctg cttgatggg agatggggag actctttggc caaagttgat gacctctcc
17941 ctggctgtct tccagattcc acagatggcg agggtgactg gagtctctgg ctgtctgca
18001 gcgtcacctg cgggaacggc aaccagaaac ggacccggtc ttgtggctac gcgtgcactg
18061 caacagaatc gaggacctgt gaccgtccaa actgccagg tgcgtttacc tgagtgtgta
18121 gctccaagtt caaggggaaa gctttttaat ttatcattaa aaacttagtg acattgtctt
18181 tttaaaagat gcactacttt tcttttcttt tttttttga gacggagtct ctccctgtcg
18241 cccaggctgg agtgcaagtg cacaatctca gctcactgca atctccacct cctgggttca
18301 agcaattctc ctgcctcagc ctctgagta gctgggatta caggcacatg ccaccatgcc
18361 tggctaattt ttgtagtttt ttaagtagag aaggggtttc accatggttg ccagggtgg

18421	ctcaaatcc	tgacctgtg	atccgccgc	ctcagcctcc	caagggtgctg	ggattacagg
18481	catgaggcaa	gatgtaacta	cttttcta	aagacttctg	accagagtga	gtcaggagat
18541	aattgatgag	ctgaatggat	tttctgagtc	ttatgcacaa	ttgcagtggc	cgtgacctaa
18601	aagacaatgt	cgcattgtac	ttatttaatt	tagaggaggg	actctggtta	gattgggttt
18661	ttgatgtggg	atttgtgtgc	ccttgaagag	aaacagaagg	cagacactca	tggctctgatg
18721	aggaagccag	gatgagaggc	ttgacaacca	tctgcaggaa	aaagacagcc	ccaccggtaa
18781	taccagagag	ttgccaaaagg	ctcccaggag	cgcaacctgg	ggcgtcttgg	tagttaactg
18841	tcactttata	ctgcattgtc	agtgtctcaa	aaactaaaact	aattgcacac	ttggtgagag
18901	gtcatgttga	gagtcaacaa	taattgtgat	tgactatagc	agtgtgtgtc	aaactatggc
18961	caggctctggc	tcgagacctg	tttttgtgtg	tcccatacat	ttttaaaactg	ttgtgaagag
19021	aagaagaaaag	agaaggagga	ggaagaagag	aaggggaagg	gcatggagga	agagaaggag
19081	gaggaggagg	gggaggagga	ggaagaggag	gagggaagctg	caaccaagac	catatgtgac
19141	ccacaaaacc	taaaatatgt	accctctgac	cctttaaaaa	aggcttagta	actcctggtg
19201	tatagtctta	ctgtgtattt	cccattgccca	ggtagaatac	cagcctaaaa	taatattctta
19261	gagcctttca	agaaaccaca	cattccaaat	ggctttggct	gaaaaaaatt	tcagagacag
19321	aaaatctgat	ccttacaccc	cagacttctct	ttttctacct	tagacactca	gttctccaac
19381	cagagacatt	tggacaacaa	gagaaatgaa	agcacaagg	cgtttctgag	gagagggagg
19441	aagaatcaga	ttggaatgaa	tgtgtatggt	agcaaaagg	gacacgtaga	aaacagggct
19501	gaaatgcaag	aagtggcgg	tctggctcca	tgtcagccat	gcagatggat	ttcaaaacag
19561	tggagcaacc	attacggtgc	ttttcctgac	tttcccatgc	tcattaggat	gagctgagtt
19621	ggaagcctgg	tgggtggaat	ctggatgtgt	agaaataagc	aataaataat	aacaatatga
19681	ggaggaggaa	gagggaaaaca	ggaaggaaat	gaaaaagaga	agaatatgaa	gtaaacgaaa
19741	ataatgatga	aggtaaaaag	atgaggcaaa	agaaaaatgaa	gattgcctgg	tgcggtggct
19801	catgcctgta	atcccagcac	tttgggaggc	cgaggcgggc	agatcacaa	gtcaggagat
19861	cgagaccatc	ctggctaaca	cggtgaaatg	cggtctctac	taaaaaataca	aaatatagtt
19921	cgggcatggt	ggcgggcgcc	tgtagtccca	gctactcggg	aggctgaggc	aggagaatgg
19981	caggaacccg	ggaggcggag	cttgacgtga	gccaagtgg	ccgagatcgg	gccactgcac
20041	tccagcccgg	gcgacagagc	aagactccgt	ctcaaaacaa	aaaaagaaag	aaagaaatg
20101	aagataaagg	tgaagaagaa	aaaataaaat	agatgatgat	gaagaagatt	ttttgagtac
20161	ttaagtgtca	agcaaatggc	taaagtcctt	acagggtatta	ttttgtttta	tgttcacaat
20221	aactttatga	aataggattt	tatgattgta	ctcattcgac	agctatagta	actgaggcat
20281	agaggattaa	cttgccatga	gtcacacaga	aagcaagtga	tcaacctgga	atttgaatcc
20341	ggagagtctg	attacagagt	tcataattctt	aatcattaaa	ctctttggct	tttaccaga
20401	gaagggtatt	ggaatcagcc	acacagggac	acagatagca	tttgaagtca	agggttgggg
20461	gctttcctgt	tgttttctct	tccagagctc	acatccagac	tcaagggtgg	agatttaagt
20521	gccttgtcag	gggaaggctc	ccctctgcct	ccatttacia	atgtttcctt	cttgttttct
20581	gtcaccgcgg	agagcagtg	ggccaggagc	cctcttcata	ccttttcttc	tctgtgttcc
20641	tcaccctcct	tgcacccctt	ctgcctctca	gttcctggct	attgcagctt	ttctgggctc
20701	ccttgttaaca	tgaaggattt	cgtttttaag	gatctcttta	cttgtttgat	tctgtgattc
20761	ccagcttttc	tggaaagact	catggggcaa	agtctccctg	gcctggcagt	tattacactg
20821	taaaagtttg	tccgtgaggt	caaccctgca	ataaagtttg	agggtgcctca	cataaaatca
20881	gagagagccc	cttaaaggaa	atcaagtcag	ggaaaccagc	aggggaaggcc	aaggctcacc
20941	agcaaatggt	accacagtgc	ctcactccct	cctcctctta	ttgcttttagc	ttgcaccgga
21001	ttcctgattg	taaaggaagc	ttgggttaggg	gtggtagttt	gggtgagcca	gtaagtttga
21061	gtagagctgg	gttcagttcc	tcagagcaaa	ttatgagaag	cccaactttt	tctttctgaa
21121	gcatcaccaa	caatgctaag	tgtcctagaa	tatgagataa	ctcttcttgg	ctatgcattg
21181	tagcatcctc	agttagctag	acaaagaatg	agctagacaa	atattcaagg	gaaaactacc
21241	acctaactc	tcccacttgc	tgtcttaagt	actttcttta	caccaactca	tttcattatt
21301	tcaactctag	gaggtagggc	aatttgttct	tcccatttac	agatgtaaaa	actgaggcac
21361	acaaaagtcc	actggctacc	ccaaggctac	gtggctagta	atgatttcaa	cgcacacagt
21421	cagtcattaa	gaacaagata	ttaaacacta	cgttctactg	cctctgggtt	agtttgtcac
21481	cctgacacca	tcctgacatg	tgtccccac	tgcccaaac	cccatccctg	ggctcagtga
21541	gtgagttcct	aggacttatt	caggcacatt	tggatctgat	ttcacgttgc	caatgtatct
21601	gggggttttaa	tatagtttct	gcactacgac	ctgcttttta	ctgtttcctc	tgttggcaag
21661	tttctgcccg	tgagtagtaa	tgaatacaaa	aaaggctttg	ttcagggtga	tttatttttt
21721	tattgttggg	gtgggggaga	taactttttc	catgtaatga	tggaaaaatg	agctcttgct
21781	tgtgttttagg	aattgaagac	acttttagga	cagctgccac	cgaagtgagt	ctgcttgccg
21841	gaagcgagga	gttttaatgcc	accaaactgt	ttgaagtgg	taagattttt	tcttttttta
21901	atccaaatat	tgacttagtg	cctcggagat	tccttttgct	tttgcaatgc	catccttgga
21961	tccacgtaaa	tgtttcattt	tccttttctg	gggtccagtg	ctcccagcat	gtgtcttgct
22021	tgctgaatat	acttcaagca	agagaaaaca	gtcctaagcc	tcctccaccg	gaccgagcgc
22081	ttctgtgttc	actctgctct	ctatgcagcc	ttcacagcca	gaggcagatg	gggacctgtc
22141	tctcagcaca	gaataagccc	atagcagggg	ctcaagtcac	atggaatctg	ttcttactca
22201	gccttcattg	agcgtcctca	agaaaatcaa	gaaatggtgc	cctcagttct	ccagcagagg
22261	gagggaggga	aagaggagat	tttctcaaaa	tattgcacct	ccatcccctg	caaaaatttt

```
22321 ttatacaccg gccagggcgc ggtgggtcat gcctataatc ctagcacttt gggaggctga
22381 ggcgggcaga tcacgaggctc aggagatcaa gaccatcctg actaacatgg tgaaccccc
22441 ccgtctctac taaaaatata aaaaaattag ctgggcatgg tggcaggcgc ctgtagctcc
22501 agctactcgg gaggctgagg caggagaatg gtgtgaaccc aggaggcggg ggttgcaagt
22561 agctgagatc gcgccactgc actccagcac tccagcctgg gtgacagagc gagactccgt
22621 ctcaaaaaaa aaaaaaaaaa agaattcttc ataaaccttt ggtacagttt gctacttgct
22681 cactagaaaaa tggtagagca aatgcaataa atgtaaacca aacaaaatgg aaagtgactc
22741 ttcaggtgca aggtgcaagc ttactttttt gaaatagctt tatgtgcttc tctatatact
22801 taaggattgt agaagggtaa aattccttct gtcccatatc ttttagctac caaaagtctc
22861 ttacttagcc tcttcacctc tgcctgcct cctcagtcag aatttagcag tcttgagtct
22921 tttttttttt catagccctg caatttgagg gctaatttgg tgaacaaaaa tgttcctcaa
22981 atgcctattg gggtcaggta atgggggtcag gtaagcatct cagtagaaca agtctcgaat
23041 aaaaggaaaag acaataaaga aagtctggag gaaaataatg gtccagcact gtgatgaaaa
23101 gaaaatggtc tgggcacagt gactcacatc tgtaatccca gcactttggg aggtcagggc
23161 gggtaggata cctgaggcca ggagtttgag accagcctgg ccaacatggg gaaaccccat
23221 ctctactgaa aatacaaaaa tttagctggg ttggtggcag gcgcctgtaa tcccagctac
23281 tctggaggct gaggcaggag aatcactgga acccaggagg tggaggttgc agtgagtcga
23341 gatcacacca ttgactcca gcttgggcaa caagagtga actccatctc aaaaaaaaaa
23401 gaaagaaaaa gaaaaaaaag aaaagaaaca gctacagtgt cgggggcagt agagaatggg
23461 agggctctgt acaaaatgaa aagctttatc caaagggtcg gccatgatgt ggccgccatg
23521 gaatgaatac ccacccagta ttgccagatg ttctgggttt ctaagagagg cctgaaatct
23581 tgattttgcc agattatata ttaatttttt aaatgcttga tagaaattta ttttaaaaac
23641 aaatccaatc agaaatgtct atgagccaaa ttggatgcag tttggaaatt cagtgtcgct
23701 agggcctcta cctcatccct ccaatccctt cacacacata tgatcaaatt gcatttaaca
23761 ggaaccgtct gcaaatacaa tgcatttgac tgaaaaatag aaatgacttt aaaggcaaga
23821 ctttgacata aagtggtaga acctaaagg cattcttctg agacagaaag tttctcagga
23881 ctcttcatat cacacccac aggcaggcag catctagctg ctttgcaaga cacagccag
23941 atgcacaaag ccacattggc atgtggctaa ggacaccaga gctgagtaga catggtgtct
24001 cagtcagggt ccaggcagga aagaacatgg cactcaag ttaggttaact gaggagcctt
24061 tggtagggga ctgcttgcag aggtacaagc agagtgggag gattgaactt tcattctctc
24121 aatgactact cagagaggag gccacagcca cagcctatcc cagctggcag cacctcgaca
24181 ctcttgggtg caccctctag gttccctccc acttaatcct ctttgcaact ttttagaga
24241 agtgctatct ttatgcccac attacagatg agaaaaactg agcacagcaa ggtaaaatag
24301 ctactcaag tcacagagct cctgaaagt gcggtgcaat tcaatcccag gctgttttag
24361 atgcgatccc acactttgcc tttcgccagg cctttctgag ttcataagac atgcccattt
24421 tttctcttcc tctgtctatt gatgagtgcc caaagccctc ttgccagctg cccctcacc
24481 tgaccgtgtg atttccaccc acaccaccac cagcctccca ggctcctggg tcagagctgg
24541 agtcaactgt gatgtcttcc tctctttact ccaaagtcca ccagccacca aggcctggca
24601 gctgtaactc tctgatctct tctgatccca cctgctgttt cctccagag tatctcacct
24661 ggaccctccc catcattatc ggctctgaat tcattttctt actgcacagc tcagttaata
24721 gctcactatc actcacaac tttccatggc tccctagtac ccgctgaacc agcctaaact
24781 gaacaagatt gccatgatct gacaccaaca atcttatatt cctatacctt ctgctcccat
24841 gaaactgaac atgtcatgcc ccagccccag acatccccag cagatttttt cctgcataac
24901 cttagtttgc acaatgaatg ctacctggag agccttccct tgtccttccc ccatcgatgc
24961 tattgcagtc tgtgtccatt agacacctcc aagaccaga caccaagatg ggattaggca
25021 tgcaagagat tttttgagga aacacccagg aaagataaag aggaaggcag caggactagg
25081 cagggacagc tttcagatcg aggtgcatgc ctgactccta caaaagaaga aaggaaggca
25141 ggctcagcca tgctgactgg gaatcccagc aaaagtggc tggtaggaga gtcgcttgct
25201 gggcggttcc cctaccacgc tcagtcattg gctgagagca gccagggggg gtaggttaaa
25261 atcacgatag atccaaaggt gcaacctgga ggctgctggg cagcaaaagc tccacagcag
25321 gttcccttgt aggagctctg agcaggacac ttgtggctgt cacacggccc tgacatggct
25381 caggagcaac ctggtgtcac gtgctccttg aagcaaccct gacttcccct gctagaaatg
25441 accttgcat tttggacacc cctggggctt tttgcctttg cctcccttaa tgcacccac
25501 attccaccac agttggcttc cttagatatg cctcatctta cccaccgcag ctactgggg
25561 cagatgaccc acccactcac tgggctgttg gtgaccagcc cacatttctt ccacccatag
25621 catgtccctc cacctccaac tggcaacccc tctgtgcctt tgctgagggt ctttctctgg
25681 acccggtccc agctgcgcat gaatgcacag ggcattccta gctggaaatc caggaccagt
25741 cccctgtcag tgatgaatgg gagctgggtg ataaaaactc agatcccat caataaaaaa
25801 aaatccggac tcagtaagga gaggatttat tcaaaggatt attgcaggga ggcaagggat
25861 gttatctccc tattattgca atgggatgaa cgctgtgacc ataagatctg caagcatctc
25921 aagggttagg aaggagagtt tctttttata gagaagtaaa taagggaag tgagatgaaa
25981 gagtggcatg atcagatagt agattggaga atgctctacc ctgaagccag tctctttcca
26041 aaagggaccc ttaaggaggg gctgtgctgg tttaggctga ggggtgggcca aagtccaggg
26101 acctgggtga aggagagaag cttaatcaaa gtttggttaa gatgcatttt gtcagccagg
26161 cgtgggtggc tacacctgta atcccagcac tttgggagtc cgagggtggg ggtatcttga
```

26221 gtcaggagtt caagaccaac ctggccaatg tgggtgaaacc ccgtctctac taaaaataca
26281 aaaattagtc gggcagagtg gcagggtgcca gtattcccag ctactcggga gactgaggca
26341 ggagaattgc ttgaacccgg gcagcagagg ttgcagtgag ctgagatcat gccactgcat
26401 tctagcctgg gtgacatagt gagactccat ccactcactg cctcaccccc cgccaaaaaa
26461 aaagatgtat tttgtcctga tcaatcagtg aggacaagca gtttttgagg caaagaaggg
26521 aatttgtgct tttggccttg tcacaggtga acaaagcaga cctctgtgag tcttttctaa
26581 gtcctatggg gaaagggcgt tctttgcaat aagctgtttt ccagaatgca gaagggtggtg
26641 gggactccta accttctactg ttttccagga tcacagggct tgggtaaagt ttaacattgt
26701 ctcagatagg aaaatgctga ggcattgttct ctatgcggtt tcccagatcc cagtgggagt
26761 taccagtccc ttacagtggg tactcgtttg ctccacaccc tgtattagct gccctccctt
26821 ctctaattcc cctgctcccc tgcctctgtt tcctgaaatc acttcccaaa aaatcatttt
26881 cactggaatc tttttgtctc agggctctggg gtaaccctaaa ctaagacatt cactaaacct
26941 gagactcact aaacctgaag tcctggactc agatgactga gggaccaaga gatcacccat
27001 aaatgaaagg atcaagtagg agctgtgctg agctggggac cttcggccct gtccatggag
27061 gggtcacat tcacctgttc acaggatcag ttgttcccat gggagaatgc aggatcagca
27121 taattcgatc ttttggtttt tcaaataaag ccaggaatcc acatttataa ttggaataac
27181 ctaattctta aatataggca actaatcaat tatttttaat actgaaagaa ccaaacacaa
27241 cccttctggg ggtagatttt gacccaggcc tacaggtcac tggcctgtga cccaaatctt
27301 aagctcccta aaagtaagtg ccccgggctc cttcctcttt gaggcgcctt gccatgtgaa
27361 tttgcagaca gcgatgggta catgcctaag gttaagaggc tgggggaacc agtccatattg
27421 tggcaaaatc aaaactgagt cctataaatc ttcttttggg gccttttcca tcatatcatc
27481 acttatttct ttatatTTTT attttttatt tttattattg atttatttat ttgtttattg
27541 agacagatgc ttgtgtgttt gctcaggctg gagtgcagtg gtgcaatctc agctcactgc
27601 aacctctgcc tcccaggttc aagcagttct cctcctcag agctgggatt
27661 acaggcgcac gccacaacac ctggctaata ttgtgtattt ttagtagaga cggggtttca
27721 ccttgttggc caggctggtc ttaaactcct gacctcagtg ttttaagatg atccgcccgc
27781 ctcagcctcc caaagtgtg ggattacagg catatgccac cgtgcctggc ctcatcactt
27841 atttagaggg gagattcaaa taattctgaa ttcttaagtt tgtaggagt gataatcgga
27901 tcacgggttat ctaggaaaat atcctctttt ttgtagatgc ttactaaaat ttaggggtga
27961 cattatatat ttccacaaca ttttttaaaa gataaaacaa atataataat agttaaatcc
28021 aggtgatgaa atatgggtag tcattgtata agaatttct ctacttttct gtgtgtctga
28081 aaatttcata atataaagt gggcatttgg aggaagtctt gtgaataatg aagtccccaa
28141 gttcaaggga cgtgagaacg gccatccact tctgatgggt ccagggggct aggggggtgt
28201 ctggctctag gacaggagtt gttgacttca gggagtgtgt gacttttagtgc tctcctgcg
28261 ggccctcagg agcagcctgg tgtcacatgc tccttgaagc acctcctgtg ggccggttgt
28321 acacgcggtg agagggtttc tctttggcct tttccagaca cagacagctg tgagcgctgg
28381 atgagctgca aaagcgagtt cttaaagaag tacatgcaca aggtgatgaa tgacctgccc
28441 agctgccccct gctcctaccc cactgagggtg gcctacagca cggccgacat cttcgaccgc
28501 atcaagcgca aggacttccg ctggaaggac gccagcgggc ccaaggagaa gctggagatc
28561 tacaagccca ctgcccgtg ctgcatccgc tccatgctgt ccctggagag caccacgctg
28621 gcggcacagc actgctgcta cggcgacaac atgcagctca tcaccagggg tcaccagggg
28681 ggcacgcccc acctcatcag caccgagttc tccgcggagc tccactacaa ggtggagctc
28741 ctgccctgga ttatctgcaa gggtgactgg agcaggtata acgaggcccc gcctcccaac
28801 aacggacaga agtgacaga gagcccctcg gacgaggact acatcaagca gttccaagag
28861 gccagggaat attaaagaga ctgggatgag gtggaggacg ctgcctctgg tctggagca
28921 cacacgtgct gcactgacgt gccgactggc gccgagacct tcatagctgc ggtcgtgtat
28981 atttgtatat accacatgag tattttctcat acattacgct aggggcgtgt gccacgcccc
29041 ggggactgcc ttgtgaagcc gccctcgcca tctgcagagc tccttgaaaag tgcccctggg
29101 gagcgatgtg ggcagaagga tggggacaac ttggaagcca gaagaagaac ctggaagcca
29161 cagtgggtgc gactcaattc acacccgat ccagagtttc aaagagaggc aaagggggaa
29221 agagactgag gttgtaaaacg ttataagcag tttttatata taacttattt aatacaaatg
29281 tgacttaatt aagcgtaac ttttctctgg agttgtgggt aaactaatca cgtctgtgag
29341 agatcagaaa gaaagagact tagggaagtg gaagagaaag ggaattttgg aatttatttc
29401 tttaaaaata atgcaatgga aatatatcaa aacatgtaaa cgccacctt aaaccaaagt
29461 ttattttggc atgaggcacc ttgctggagt ctcagattcc aaaagtctct tcttcagact
29521 gggtagggaa tatgatattt tagggacaaa gctgaggact ggttttaaat aggctttaa
29581 ataaaagatc aatattatca taattgctatc attctgctaa acggcccaa aacagtagaa
29641 tttctgctca tgtcctagca ggttcagaag actgcagcca agttcagatg taaaacaag
29701 aagtagcact tttccaaagg aaaacaacaa aacaaatggg aaaaagataa tggaccgcat
29761 ttcacctatt ttaatactat tttaacaatt ttttcatcta ccaatatatc cccaataaat
29821 aaatataaaa gggggggagg gtcaatctgg ggaatcttag ttttttatgt ttaagaaaa
29881 caaaaaaac tgcattattt ttgtaaagta tttattgagt cacggattat tgtgcatcaa
29941 gcaattgtta atatgacctg gtcctatggg gtagaactta ggaaaaataa agttgggtct
30001 tattcaatat tttactttgc aaaattctag taaaagagag tatataataa aatcataata
30061 aaagggtgta cctgcaccc tcaattatga tacaaatgcc ataaatagcc cgtgtgaagc

30121 aagacttcaa ggcaggggaa agaaaatttc aacccagggtg ggaataaaaag gctcattcat
30181 tgattgacat gattgtgggt ggtgtaagtc atggcatcct tggcaccaaa atcgtctacc
30241 caacccccag gaggctgagg cccattgaca catgtgtgac tttttgcccc cccagaccta
30301 aggaagccaa accagagcaa aggcttaaga cagcccagat gagcagggcc acttccacag
30361 aaaattctgc aattacaatt ataagtagaa ctactcatca tgaaaagtat tccttttccc
30421 gatgagaaaa tcaaagctca gaaaacataa agacattgga cccatctttc atttcctagc
30481 ctagtattct ctctactgta gcacattttt gaagtcccta tattcccggc acctttggca
30541 ttcctaaccc cacccttaag ttatcctgac acaattctat tcttatggaa aactttttac
30601 cagtcattta cacatttttt ttttgagaca gtctcactct gtccccaag ctggagtga
30661 gtgacgtgat cttgactcac cacaacttcc gcctcctgag ttcaagcgat tctcgtgcct
30721 cagcctcccc agtagctggg attacaggca tgtgccacca cgcctggcta actcttgtat
30781 ttttagggaga gataagggtt caccatgttg gccaggctgg tcttgaactc ctggcctcaa
30841 gtgttctgcc tgccttggcc tcccaaagca ctgggattac aagcatgaaa caccatgccc
30901 agacatttac accttacaat gaattattta caccttagaa ggtattgccc attctcagaa
30961 tattttatatt taagatctgt gtctaatac ggaatgagaa gacttattca ccttgaagc
31021 aattttttgc taagatgaa ctgaactagt aggaagagaa tcaatgcgtc cgtgtatcag
31081 gcatatagat ttggtttata ataatgagga aatttttttt gcaaagagaa ttggctggca
31141 atggaatgca ttgcctttga ggtggtgagt atcctgtcag gacaggatt caagcagagg
31201 ctggagatta gtcacatgaa cagctcaact gggatgatcag gagagacaaa aatgtatagg
31261 acaaaaccct ctgatgtgtt tgttaagtgt aagcacaaag tactatgaag aaatagaggc
31321 agaaatcagg gaagtatctg ttggttctaa tgaaggagtg ggattttata aagcataaaa
31381 gagcaagggg aagtgggtgt atttgaata agaaaatagt atggagaaaa gcaaagaaat
31441 aggtaagtac ttggtgtttt ctgaaaaccg ggagttaaag gtgatgagca gaggaacaag
31501 agtggcaagt tatggagcca tgtctaaggt atttttgtta aggattttaga gtgaaatctc
31561 aaagagaaca gagagctttt ttactacggt gaaaatgact aatgtgagcc atgctgtcca
31621 tgagctattt gccttttaat atcagacctt gctgacctaa tgaactgaga gttggaaggt
31681 ggggtaaatt ggaggggagg gctccaggac tctgcctact gagaacaccc tggctctcca
31741 tgcacatca gatggttcca aacctctgga aatttgctga actataatcc acctctatta
31801 ggatgagcta attttcagtc ccaatgcttt agtgggcaa tgagtgatct tcggaaatca
31861 agacctcatg cctaggttgt ctaataagac taggagaccc ttatctcatt caacacaggg
31921 cccaagctg gtgccagggc aacccaggc agttcactca gtgggcagta gatcatctgc
31981 tcaagggcca gctttgcctg cagcagagta aggaatgagc aaggccactt ccacagaaaa
32041 ttctgtggaa ttctaaggaa tgtctgcagt ctggtgacag tccttgtaaa tatgacccc
32101 cagtagctgc tcaaattttt ctctttgagt gcaactgctc tttgccttcc cctggaaaga
32161 gagttctagt aattcagtgg gcatcctggg tgccacatct gaacacaaca gtggtaaaca
32221 gagatgcca cggccctcta gtggctgcac atgggaaggg taaaggagag gccagggcag
32281 cctatagctt tctcttcgga cccagttcat gtaaccgcca tgattatagt ctccaagca
32341 cctcagtctt tatgtcttag tggccaagag ggtagagttc tctgtcttaa cgccggggat
32401 taaagaacag ctactataca agccaccatc ttctgagccc acactttgtg tctctgtgtt
32461 aatcatttta ccacaggaga ccggcattat tacatccagt ctatagataa ggaaaagaag
32521 ccaaacaagg ttagttaact gttctaaggt cagaccactt ggtaaatgac agagctcctt
32581 gaagccagca gtgtctgac accaaagccc aggtctctaa acctaacgcc tgtgtctcc
32641 tctcctccta actcatccca aggtctgctg gatccatgct tttctgtgac tctactgcctt
32701 tgcttagatt gttcaaagag gatctggctt tatctctatg tattttgccc agttatctca
32761 tagtccataa aaggattttg tggttctata gctgagccct tgctcaggtt gggtaagtca
32821 caaagctcaa catttctaaa agatagcctg atccatgggt gaaaacaaa atgggtctgc
32881 ttttcccacc acacataagc cctgtgctaa ctgctgcctg ttaggtagag ctgaggggca
32941 acataacagg cacctaacct tcctacatgc ccaggttcca gcaactgcacc tggcatgcat
33001 agtcaggcaa tgtgcagagg gcttaagagt ttgagggttc agtgggcctg gactccaatc
33061 ctgactctct cacttgcctg ctgggagttg tcagacaagt taatacattg gcatttagtc
33121 atttgccaaa tattttattga gcataacat acgccagata ccagggatac agcgggtgtac
33181 aaatcaaagt ccctcctctt ggagggggaga tagtggataa gtaaaataagt gcagaatctg
33241 agattatggg aagtgatata aagtcaagtt tttgatcaca catgtatgat gttacattat
33301 ttaagggtgat gctgggttgc gtaacaaata atcctcaaaa tcacagtggc ttaacccaaa
33361 aaaactctaa agagtatgtt tctagccaag tggcccacct ctaagtgaca acccaggggac
33421 ccgactcctt tccatcttgt ggctctgcca ccatcaaggt atgactttct aggatgccct
33481 ggggtcatct caatcccagt ctgttcaaaa ggtagaaagc agggagaaaa cttgtaaaagt
33541 ttttttagg ttacagcagt ttcagcagtg caatgcttcc agtcactctc agtcactctg
33601 ctacatgaca catccttctg caagggagac tgggaaatga agtccagatg aggggtccag
33661 gaagcagaga tggctgcatg agcaccagc cagtctctgc caactaccca atccacaaga
33721 caggaaagaa aggcagcaga agaggctctg ggtggaatca aagtgggagg tcatggggag
33781 aggtccttct cactccccc ctgtcttcca cattgtacta tagtgctaag ctggacccca
33841 ttttcttctg ctataaattg gggtaagtcc acctgtccaa actaccatt gtccagtgtc
33901 tttgtgtccc caagcatccc ctcagcactt tccatatctg ttcaaaccag cccaactttc
33961 aagcagcagc tcccacatgt ctttgctgca tggctttttc catcatcgtg gagcccagtg

34021 agcttgacaca gaagactgga agtgctggga gtcaacagac tgagtgcctg tcagtcaact
34081 gtttggtgat cttgggggaa tcagtaaacc cataagactc cactcattgg tcaatgaata
34141 ccccaactcc ctcacccctc gaggggggcc attgtgaagt gtgttttata ccagtcacag
34201 agctcccagt gggattgagt tccagttgcc tatagcagtc acctacttga aaacacacac
34261 tttattagct tccttgccct ccccatctct ctccccact tccctactag tactcgctgg
34321 aatcttctac caaataagca gcttgctcag cgccatctct cagagtgtgc ttccagggga
34381 ccccaaacca agacatcact tcacgcttaa atacttatta agtgctattc aaatattatt
34441 gttaatatatt gatatttaatt atttgataat aacatagtat tatttgaata gcacttattt
34501 cattgtgcac atctgaagat ggttttgcta tgggtgataa atctaccaa gaagagtcaa
34561 tctcattctg gccagagaca ggaactctac tagattttaa taccgttgag ttgttaaaaa
34621 aaaaaaaaaa aaaaaccctt aattttttatt attagattca acagacagaa aattaatctg
34681 ccaaatgcct ctaacatttt taagtacttt tccataattt tagaattaat ttccttgctg
34741 actacagacc cgtactactc tgaggaccac acttgaggat ggactgctca aatcaagtga
34801 gcaatagtga tcaaaacccc tgtgagtgct aattccatcc cgacacacaa agagtatatga
34861 ataagcttcc caggaagtgt tgtggggcgg ggattagggc ggagtctctc tttgttcatt
34921 catttacaat ttccaatgga aaaatgtgtg ggtcgtccca ttatgcctgc acaatttcgg
34981 acaaattaaa ggcttgccct agtaattact ggggtgggtat atacagaaac atacatccat
35041 gtctacaggt cctgcataca gtagtgtaaa ttaaggcaga aagtttacag ccagttgttt
35101 ttctgaggct tagtattggt ttaccatatt agagtagaag gagagggaca tattccagga
35161 tcagaaggta agattttttaa ggaacgaatt tatgagacta gcaattcctg gttgaatccc
35221 accaaaagaa caaagtttaa atgcatacct ttttctttt taatttctgt gtagagattt
35281 aaaaaaccaa gctaaaaaga ccagtgcctt gcctgtaatg gcaaaaaata catcatcctc
35341 aaccatttta gtggcagggg aatgagtggt gcaactggat gagacacagc tgcaataagca
35401 aagctgggta agaattttat gactttgcta attttctatc tgttctggga gtaataaatt
35461 tgcccttata gatattcacg attgccctca aaatgaaaaa aaccttttaa atggcacaga
35521 aaagcctttc attcttgagg catgtaattc atggatgatt ttcaaaatgt catatttgaa
35581 ttgggaaagt aacatttctt gaattaatca gccaatgct tcaagaatat gactcaaagg
35641 atataaaaaat ttcaagcctg acttttaaaa aagaaaaagg aatttttttt ctatgttggt
35701 tagtttattt ttcacaaagg tcatagctaa atcaggttta ttgcatggg aagagaacag
35761 tctaaatgaa gtacactttt agttcttttag taaaagggaa tgtagcaaaa ttttaacaag
35821 caccacttta aatttttaca ccattagaca tgcggttttg ctttgtctag ttataccctt
35881 ctttatttcc ctctctacca gattttggtg gtgttttttg tttgtttgtt tgtctgtttt
35941 cacctttgga gagctcagca aatggagaag gagaaaggac aaaaaaaaaa aaaaaaaaaa
36001 aagcaaagaa aataaaacaa agacttccag gacaaaattc tctaaggggc ctctaaagtc
36061 actcactctc tgtgttatca acataagtaa agggaggtct ttgcaaaggg aagacaagag
36121 agactcatac cactgacttg acttttccca aagaaccttc aaaaatcctc ccttagagct
36181 gtcaggaccc agcagagacc aggaagggat tcctaaagggt ttgaagtctc agagccaagg
36241 gatggggact ctggtcaaga aagaacgagg tgtcccatgc tggtagctac agaggacaga
36301 atctcctgtc aagaacatgt caggatcctc acctggggat cctagagagt ggagcccaag
36361 gccacctgct ctgtgtttca ggaaaaagac cacatttgaa tccctcttga ggcctccctc
36421 ctgctattac aggataattg agggagagag aaagaacaaa agcagctgat ccagtgccag
36481 aaagataaag gcttggtcac actactcacc agcagcaaat gtataaagct gaagcttaac
36541 atcaaactca ctttctgttc cactcttcac tatgtctaca cagcaccatt ccagtcaacc
36601 tccccacagc attcctccca tcccctcggc cacacatttg accctcttat agccaattgg
36661 ccatcctttg ggccagtctt tttcaaaata cttttggaac attttatgga agtagtacat
36721 acattcagaa aagcacacac gtatcataag ttcacggctc aatgaatttt cacaagtga
36781 atacacccat gtcaccaaca tccataccaa caccaagaaa aaacagaata taaggctcat
36841 gaaggagctc tctggggcta cagaaatgtt ctatatattg tgtgggttga ttgtcaaaac
36901 tcaactgaag gtacactttt taaaaactga atttctttgt atgtaaattt taccacaaca
36961 caaaataaat aaggcaaaac cagcactccc atgccccctg ccagtaacgg gcactcactc
37021 ctcaccaaga ataactcagta tcatgaattt tacaccagat tagttttgtc tgattttgac
37081 cttcgggtaa atggaatcgt acagaccccg ctctgtgagg tctggcatat tttgtcaat
37141 attggattgt gaaattcttc catatcgctg cttgcagcta aaggtcattc atgttatca
37201 catttccaat gtgtgaatat atcacaattt tatttaacag ttctaccatg gaggaacatt
37261 tggattgttt ctagattggg gctttcacaa agagtgtctac tatggacagt ccaggggtgtg
37321 cttttggggt tgcgtattca cacatttcca tggggagtgg aattagaagg tcatagggca
37381 tgcacagctt tagttgatac tgcccagtag ttttccaaag tggttgcctt ggtggacact
37441 ccgttttagga gtgtttgaaa gtctccattc tttagccaat ctcaatttca ccccctcac
37501 tgtctttcct gactactcca ctctgtgata tcttaattat ttatgtttta ctcaatacgt
37561 gcatactgag ccccatcac tgtgctgcgt gctggggaca caaaaaggaa tagacaggaa
37621 tccatcatca atgaatgaat ggcccagtg ggtgtctgt aacacagtg gaatctgatg
37681 taactcagat gcttgtaata caatgtaaat ggtaccatgg gaccaaatga ggggtgtgatt
37741 aattatggca gtaataacta gtgagccaga atttatacat tattatttag gaaaataaac
37801 ccaatgattc caagtcttgg caaggcgatg aggaaacaga aactcttacc atcaccgctt
37861 atgggtgtat gaattgaaca gtactttgcc tatatctagt aagttgaatc tgccacatag

37921 ctggatgcat cagtttcact cctgagggcc tgtttttgta ttgtcaaaaa gtggaaacag
37981 tttaaattgt ccaccaacag aggaacagac aaatcaacca tgttaagtgc ataatagaga
38041 atacaatcca gctgttaaat gatctaggct attcgtattg tcaaaaatgt gtctatactg
38101 tctgaaaaag aaaattacag atggatgcat gttagggtaca gaacatttgt gttcccccaa
38161 aatttaaatg ttgaaatcct aaccccccaa gttatgatat tcggagggtgc agcttatggg
38221 aggtttattag gtcattgagg tggaaccacac atgaatgaga ttagcatcct tacaaaaagg
38281 accccgagag agctctcttg ccctctttcc accatgttaag cacaaaatga gaggtcagca
38341 gtctataaac cagaagagga ctctcagcaa aatctggcca tgctagcacc ttgatctcag
38401 acttccagcc tccagaaatg tgagaaatac atttctgttg tttataggcc actcagtcta
38461 tggtagtttg ttgtatcagc ctgaactgac taagacagta tatgaaagta gtatacaatt
38521 ttaataattt aaaactcaca atgcaaggct acattatatc tggacaccaa catacataat
38581 aaaaatacta aactatgcat ggggaagacta agcaccaact tcaagacaat agttacctct
38641 gagatgaatg acagtgaatg ggtggaggag gggatacttt agaggtaaca ttttatttct
38701 ttaaaaaaaa aaagcctaag agaataaagg acaaaacatt ttatgctcat ctcaagagat
38761 gaagagagta ttgacaaaaa ttgaatatata tttcataata aaaactctca atgaattagg
38821 tgtagaagaa atgcacctca acacaatcaa gaccatatag cacaagccca cagctaacat
38881 catactcatc agtgaaaagt tcattaaagc ttttaaccat cagtgaagaa cttttcctcc
38941 aagatcagga acaagacaag catgctcact cttactgctt atattcagca cagtcttgga
39001 aatcttagcc agaacaagta ggcaagaaaa agaaataaaa ggcatctaaa tcagaagaca
39061 ggaagtgaat ttatctctgt ttgcagatgg tattatctta tattcagaaa atcctaaagg
39121 ctccacaaaa aagctgatag aattaataaa caaattcagt aaagtcatag gatacaaaat
39181 taacataaaa aaatcagcaa tgtttctata agcaaaaaaa ctatccaaaa aagaaatcaa
39241 gaaaacattc tcatttaciaa cagcatcaaa aaaaactaag gatgaataca ttaacaaaa
39301 tggatgaaag atctgtacac tgaaaagtat aaaaacatcaa tgaaagaaac tgaataaaaa
39361 ataaacactt gaaaaaatac tctgtgttta cggattggaa gaatttatat cacaaaaatg
39421 tccatattac ccaaagcaat ctacaaattc gatgcaatcc ctaacaaaat tctgatgata
39481 tttttcatag aaacataaaa acaattcca aaattcatat ggaagcacia aaaatactaa
39541 atagccaaaag caatcttgag caaaaggaac aaagctggaa gtataaact atatgtcaaa
39601 atatactaca aaggtgtagt aatcaaaaaca acatgatact aacatataaa tcaatggagc
39661 agaatagaga gctccaaagt aaatctacaa atttgtggtc aactgatctt tgacacattt
39721 gcaagaacac acaatgggga aaggggtggtc tcttcaataa atggtgctga gaaaactgga
39781 tatccacctg cagaagaatg aaattggact cttatctcac ccacatata atagtaact
39841 caaaatggat taaagactta aatataagac ctaaaactgt aaaacaactg gaaggaaaca
39901 ggaaaaaaa tgtattgaca ttgggtcttg cagagatttg tctcctgccc aaatatgtag
39961 gcaacaaaag caaaaatagg caaacgggtt tgcatcaaag gaaaaaggtt ctgcacagct
40021 aaggaagcaa tcaacagagt aaagagaaaa attatgggct gagagaaaat acttgcaaac
40081 cgtacatctg atatgggggt aatccgaaat acataaaaaa ctcaaacaac ttaacagcaa
40141 gaaaacaact tgattaaaaa gtgagcaaaag gacctgaata gacatttctc aaaagaagac
40201 atacagaagg ccaatggata tatgtaaagt tgctcaatgt cactaaccgc aggaaaaatgc
40261 aaattaaaaa tacaatagga tattacttca tactgttaag gaagatgttt atcaaaaaat
40321 ataaagaggc caggcacggt ggctcacgcc tgtaatccca gcactttggg agcctgaggc
40381 gagtggatca cctgaggtca ggagtttgag accaacctgg ccatcatggt gaaaccccat
40441 ctctactgaa aatacaaaaa tttagctggc atgggtggcg gtgcctgtaa tcccagctac
40501 tctggaggct gaggtgggag aatcacttga acccggaag cggaggttgc agtgagctga
40561 gatcatgcca ttgcactcca gcctgggcaa caagagtga actccatctc aaaaaaatag
40621 atatagatag atgatagata gatagataga tagatagatg atagatagat agatagatag
40681 atagatagat agatagataa taaaatatatt gtaagaatgt ggaaaaggag aactcttgta
40741 cactgctggt gggaaatgtaa attgtctacag ccattatggg aaacagcatg aaagctcctc
40801 aaaaaattaa atatagaact accatgtaat ctagcaatcc cactcctggg tatatatcca
40861 aagaaaatta aatcagtatg tgaaaagagat atctgcatct tcatgttcat tgcattgata
40921 tactcaatag ctgagatatg aaatcaacat aagtgttcat atacagataa acaagtaagg
40981 gaaatgtggt atgttcacat tatgagatgc tagtcagctt ttaaaaagga agaaattctt
41041 tcatttatga gaacatggat gaacttgag gacattatgt ttagtgatat aagtcaggca
41101 cagaaagaca aattctgctg gatctcactt atatgtggaa tctaaaaaaa tcaaactcat
41161 accagcagag agtagaatgg tagtaaccag gggcttgagg ggcgtaaagg ggtgtggaaa
41221 ggggaaatgt tagttaaagt gtacaaagtt tcagttagga gaaacaagtt ctggagattt
41281 attgtacact atgatgactg tagttaataa tctattacat acttgaaaat tgcgtagagt
41341 ctatttttaa tattctcaaa aaaaatgaat gtggtgattg atatgttaac tagcttaatt
41401 ttcccacaat gtatacacat atcaaaacat cacattgtac accataaata tagacaatta
41461 atcatttgtc agttaagaat taattaactt ttttaaaaga acatatatat atcttaaggt
41521 gttgatacga gttaaatctg agtattgggt aggttacaac tgctacgtta tcttctgtat
41581 atgtgatata ttttaaacca agtaccaaaa gtaagcaaaa ctaaaaggga aaatgcaatt
41641 atgctgtgag ttttagatggg atcctacaaa gccatgcaca tgtgagttca cagccggcat
41701 atgtgagttc acagtcggca tgtgtggcca gtgtatgtgg ccgtgatggg ttgaatatgg
41761 aaatgtcgtg ggtgagacat cttactcac tcactcacag gtaatgaagc cactcctacc

41821 agccttgctg gttcctccaa gagatgcaga gaggcacatc ctgcacaacg ccctgcaact
41881 tctcccttcc tctccctcat gcacagtctg agataaacag agcactagac tcggaaccat
41941 gttctaaatt cagcatttac tggacaggag gcctcaaacg agtttcacag ccctaattgag
42001 tcgcagcctg ctgaatcaca ccttccactc tctcctgctc tcttgccctc gggggccatga
42061 cagtggactg aaggaggcca aggagacata ataagaaagc aaactatggg gcccttggtc
42121 ccccccacca gctgaaacac ctactttgtg ctactctggg aaatcatcac acttagtcac
42181 ctttacaatt tttacaaatg aggaccctga agctcaggga gtgggcttgc catgatcaca
42241 agagtagatc cgtattttaa cctgggtatg tctgactcta aatccatttc tctttttccc
42301 cactttttat tcaaagtggg aaatgggtatc tttgatttct tttgttccct ctgcttcacc
42361 ttacctacac caaaggagca tctgggtggg gtgtggagga agtaaaattt gagcctcatc
42421 tgcgcatctt ccaaattcta gcaggtcccc ctcgagctaa aaggcatttt ttcctgatct
42481 tcaccagtca gttcttcttt gggcccatc ccaccacctt aaccaatgac tcccgcatcc
42541 aggtctgccc acagatccct tctacagcct cccctgaaa actaattgca gattattaga
42601 actttggctt ccattccagt gtggaagaag ccagaattta acactccatc ctaacaattt
42661 ccccccacac gcacctgtta agtttagcct caaggctgcct ccttacacat ttttaattca
42721 acctaaagggt ttctctgcaa atagtgaagt gtaacctaac tggatgtgta aacagactgt
42781 agcttactct tgtgtcaatc acagaatttt ggccaatcac aggcagccaa ctattcaaac
42841 cctgttcaaa taaggtaaac acggagccgt agtcaattgg gctgtttctg cacctcactt
42901 ccattttctg tacaacactt tcctttttct tccaccacac agcagggctg gagtgttgct
42961 ggagtgtctc tgagcctatt cgggctcggg agactgcctg attttgcaaa tcattctttg
43021 ctcaattaaa ctctgctaaa ttttaattgt ctacatttct tcttttaaca caccttacca
43081 catcactaaa gtcctatttt aaacagctcc tttttaccaat atatcatgtc cagctatcaa
43141 gaaaaaatta taagacatag taaaaggcaa aaactacagt taaagaaac agagcaagcc
43201 atcagagcca gactcagata tggcagggat gctggaattg ttaggccagg aatttaaaac
43261 aacaaggatt aggggtgctaa gggctctaata gaataaagtt ggcaacatgc aaaaaataaac
43321 tggcaatgta agcagagaga taaaaaattc taagaaagaa acataaaatg agatgctaaa
43381 gatcaaaaac ataacagaaa tgaaggatgc ttttgatggg ctttttggca gactggactt
43441 gactgaagaa agaattctctg aacttgaaga catctcaata gaaaccacca aaactgaaaa
43501 gcaaaagaaa aaaaagactg aaagaaacaa aacagaacag tcaagactta gagacaacta
43561 tgaaaattgt aacatacaca taatgggaat acaagaagga gaagaaagag cagaagaaat
43621 atttgaataa ataataacag aatttcctc aaattaatgg caaacataaa actataaattc
43681 cagggaagtct agagaataat gagtgggata atgccccaaa gaaaaaacccc tacacctagg
43741 catatgattt ttaaaactaca gaaaaacaaa gaaaaaattc caaaaagaagc caaagggaaa
43801 aaacacctta tctataaagg agcaaagata agaattacat ccaccttctc ctcagaaacc
43861 acataagcaa taaaagagtg gagtgaaaca tttaaagtat tgagagagag aaaaaaaacc
43921 acctagatcc tgtgccctgt gaaattagac ttcaaaaagta aaggagaaat aaaccttttc
43981 tcagacaaac aaaaatggat ggaatttgtt accagtagaa gtgccttgca agaaatgcta
44041 aaagaaattc ttttaagaaaa aaggaaaaatg ataaagggtc gaaactcaga tcttcataaa
44101 aaaggaggag aatcagaaaa ggaatagtga aggtaaaaa aagtctgtta tttttctctt
44161 tcttgattga tctaacagat aacagtgtgt tcaaaaataat aacagcaata atttattcaa
44221 ttatgcacat atctatatct atctatatgt ttatacatgc atgtatgctt atgtataagt
44281 gaaatgaatt ccagcaataa tacaagggat gagatggaag aattagaatt attataaggt
44341 tctcacacta tccatgaagt ggtacagtgt tatttgaaag tggacttgga ttagttgtaa
44401 atgtacattg caaaatctag agcaactgct aaaaaaaagt ttaaaaggaa gtataactaa
44461 tatgctaata aaggagagaa aatagaatca cataaaatgc tcagtgaaaa ccacgaaagg
44521 cagaaaaaga atggaagaca aaaacagcaa aaacaacaa ggacaacaaa taaaaaatag
44581 taataaatat gataggtatt gatgtaacta tatcaacaat cactttgaac atcaatgacc
44641 taaatatacc aattgaaaaa cagaggttct cctagtggat caggaaacaa gactcaacta
44701 tatgctgtct acaaggaaat cactttaaat ataaggccac gtagaaaggt aagtgtttgc
44761 agaaacatgt tatgcttgca ccaatcaaag gaaagtagca gtagctatct caaacagagt
44821 agacttaaga ccaaggaaag ttatcaggga taaaacgagt tgttacgtga tgataaaagg
44881 atcaagtctc caagaagaca taacaatcct taatatgtat tcacctaata acagaacatc
44941 aaaatacatg agaaagaaac taatagactg caaaaagaca tagatgaatc cattatcata
45001 gttacagatt tcaatacccc aacatccctc atagttgaac tcaacaacac aattaatcaa
45061 ctggacataa tggacatcta tagcctactt catccaacaa cagcagaata cactttcttc
45121 tcaagcttat atgaaatatt caccaggaca gaccacatac tggaccataa aatacacctt
45181 aaaaaatata aaagaataga aatcatacaa tgtccactct cagaccacaa tgaattgaa
45241 ctagaaaaaca ataacagaaa gctgaaaaat cccaaaagct tacagattac acaacatact
45301 tctaaataac acatgggtca aagaaaacat ctcaagacaa actttttaaact
45361 aatgaaaat gaaaacacaa cttaccaaaa tttgtaggat gaggcaaaag tagtgcttaa
45421 agggaaactc tgaaaaggta aataaattca ataagcttct gcgctggcca actgtgaata
45481 aaagagaaaag ggtacaaatt actaatatca gaaatgaaag agtggatatc actacagata
45541 tcatggacat taaaaggata ataaaggaa accatgaata actctatgcc cacaaattga
45601 taacctaaat gaaatggatc aattcctgga aaaacacaat ctgccaaaat tcacacaaga
45661 aggaacagac aatctgaaaa ggtctatatc tattaaggaa attgaattga taattaataa

45721 cctgtcaaaa cagaaagcac tagcccaggt aggttcaatg ttgaattata ccaaacattt
45781 taaaaagaaa ttatttcaat tctctacaat atctttcaga aaatagaagt agaggggaatt
45841 attattaact catcctatga gagcagcatt atcctattac caaaaccaga caaagctatt
45901 acaaaaaaag tactgaccaa catatctcat gaatattcgt gcaaaaatcc tcaacacaac
45961 attagcaaat caaatccagt aatggacaaa aataattatg ccccatgacc aagtgggatt
46021 tctctagat atgcaaaggt ggctcaacat gtgaaaatta attaatgtaa catatcaact
46081 gctaaaaaag aaagatcaca tgatcataga aacagatgca gaaaaatcat ctgacaaaat
46141 tcaacaccca ttcatataa aaaaaaaaaa ctttcaatga actaggaata gatgggaact
46201 tcctcaactt gataaagaaa acctacaaaa caccgatag ttaatactta gcggtaaaga
46261 actcaaagct ttcccactaa gattaggtac aaagcaaaaa catcccttct caccattcct
46321 tttcaacatc atactacaag tcctatctaa tgcaataaga caagaaaaag aaataaaagc
46381 catatagatt gagaaggaaa aaaagggaaga aataaaaactg tctgttcatg gatgacatga
46441 ttttctatgt aaaaaatcca aaacaatcaa caaaaaatct ggaattaata agcaattata
46501 gcggcattgc aggatacaaa gttaatacac aaatgttcat tgctgtatc caacaatgaa
46561 caagtggaaat ttgaaattca aaacacaata ccatttacct taacacctca aaattgaaat
46621 ccttaggtat aaacctaata aaatacatatc aagatctaca ccaaaaaaac aaaacaaaaac
46681 aaaaaagcta caaatctctg atgagagaaa tcaaagaagt aaataaattg agagatactc
46741 catgttaggg aggtcattt ttgtcaagat gtcagttctt cccaacttga tctatagatt
46801 caaggcaatc ttattcaaaa tcccaacaag ttatttcata gatatcaata aattggttct
46861 aaagtgtata gggagagata aaagaccag aatagccaac aaaatattga aggagaagaa
46921 caaaggtaaa cgactcatatc tacctgactc taagacataa tataaagcta cagtaatcaa
46981 gacagtgtag tactgacaaa agaataggca aatagatcaa tggaacagac tagagagcca
47041 gagaatagac ctacaccaat agagtgcatt gacctttgac aagggatgaa agacaacaca
47101 gtggagaaaag gagtttcttt aataaagtgt attggaaaaa gtgagcattc acatgcaaaa
47161 caaatgaatc tagtcacaga ctttataccc ttcacaaaaa ttaactcaaa atgaatcata
47221 gacctaaatg tgaaacataa gattatctaa aagtcctaga agataacata ggagaaaatc
47281 tagatgacct tgtgttaggc aatgactttt taggtacaat accaaaggca ctatccgtgg
47341 aaaaaaaagt gttggtaagc tggacttcat taaaattaaa cttttttgtt ctgtgaaaga
47401 cactgtctgc atgaaaaaac aagccaaaga ctgggagaaa atattttcaa aagacctaac
47461 agataaatat ccaaataatc agagaaccct aaaactcaac aataagaaca caaacaaccc
47521 gattctttta atgtttctga ggacacttga aaaaataaat aaataaataa ataaataaaa
47581 atgagccaaa gactctaaca gacacttcac caaagaagat atacagatgg caaataagca
47641 tataaaaaaga tatttcacat catatgtcat cagggaaatg caaatataca caacaacaag
47701 ataccattag aatggccaaa atccaaaaca ttgacaacat cagatgctga caaggatgtg
47761 gagcaacagg aattcttatt cattgagaat agtgagaatt caaaatggcg tgaccacttt
47821 ggaagacagt ttgatgtttg cttatgaaat taaacgtacg cttaccatag gatccaacaa
47881 ttgtgctgct tgggtatttac ccaaaaaact tgaaaaattg tgtccacaca aaaacaaaaa
47941 aacctgcaca cagggtgtta tagcagcttt attcataatt gacaaaactt ggaatcagcc
48001 aagatgtcct tcagtaggtg aagggataaa ctatatctta ttagcactga ataattattc
48061 attgtctggc tatccagtgc taataagtgc ttgctatcca gtgctattca gtgctataa
48121 gaaatgagcc gtcaagccat gagaaaatat tttttgaaac tcagtgaaaa aagttaaaga
48181 agccaatcta aagaggctac ctacactatg attccaacta catagccttc tagaaaaggc
48241 aaaactatga agacaggaaa aagatcaatg gttgccaggg gttgagaaga ggaagggata
48301 aataggcaga gcacagaaca ctttcaggac agtgaaacta tgctatgtgt tactataatg
48361 gttaatacag gtcattatac atttgtccaa actcatataa ctgtacaaca gcacgagtga
48421 accctaataga actctgggtg ataataatgt gtcaatgtag gttcatcagt tgtaacaaat
48481 gcatgactct agtggaaagt gtcgatagtc agagagagta tgtctctatg ggggcagggg
48541 atatttggga aatctctgtt ccttctgttc aatttcgta tgaaactaaa aatgctctga
48601 aacaatagtc tattttttta gtgactatta ggtagaagaa aaaaaaaaac actaattgca
48661 gaaaaccaaa caaggcaagg ccaactagac tatgagcaac tgctggctcc tgctgcatga
48721 actagacact tatctgggtc catgtgcctg gcagcccggt tatttctact gctaatacaga
48781 aactggaagt tattgaaaac agagctcaga gacacaggac ccactgagtc acattgcatc
48841 tgagtttcac agagggtcaag ggttgaggaa tgatcctgac ttaatcctaa caggtaacag
48901 tcaactcgag agtgagagaa gggagctaga taggatatag atcagagaaa agagagaatg
48961 aaaggaaaaga aagacaggca aaatggcagc tcgtagaagt atatcccaca ttctatctcc
49021 tttatttgtc aaaaacaaaca acaaaaaggga ttggtttcca gagttctaag gttgtataa
49081 tgcttaaaaga aacatgggtt aagtttttgc tacaggaaaa tgtttgatc tttttgaaga
49141 ttaacccctc ccccccctgca cacacacact ctagaggggt agagagacgt ggggacagcc
49201 agccaacctt cttgtccctg ggcctgcagc agcatcaggg cacctggtgt ggagctgtgg
49261 ctggaggctg attagaggaa ggaggctctc taaccagctc aggtcctgca gagatttgtga
49321 gggctcttct gggaaaacagg gacagggcag caccaccagc atgacacaga aggaagaaag
49381 cacaggcagt tctgaaaact ccaccgaagg gttgggggct ggagagctct cactgcctgc
49441 tttcaggaag tgacccaaca ccccaaagtc agaaaactgg gtacaccagg tgaagttgta
49501 gagaaagcaa caccagggtc ccctcctgtg agaagcaatc tatacctctg ctggttataa
49561 gtaagcaata accctgctga ggggtcatg ggtcctggaa gagcacagga tgttgtcttt

49621	ttccctggaa	ctaagacttg	tattcatgga	ataggtggta	gagtgtgagt	tgagcaaaaa
49681	tacttcctaa	attcccaa	gagttcagac	ctcatttagca	gagttctgtg	tgatacatta
49741	gctttgtact	agaggaggga	tgtaaacct	aaaagcattg	acttcacact	gtgcttgcaa
49801	accaaaggac	agaacttaga	gacaaatgg	accaaagtgc	tcaaagctga	aaacaagaga
49861	accgaactct	ggtaatttta	aaaagaaaa	aagtatagga	cagatattag	gtggctttag
49921	aaagacccaa	atatataaaa	ccacatcaaa	tattaaggga	ggatgctatg	tcaatttaga
49981	taaggtctga	cagcagggtg	gagaaaaaca	aagtaaccat	ggctcaaata	aggtagaagc
50041	ttattgctct	ctcatataaa	aacagaagtt	gatagtccca	ggtaagtaca	agttctgggt
50101	ttcctcagtc	tcactgctcc	atatttctct	tgaagcagtt	tccatttcat	ggtctaagat
50161	gactgtccaa	gctctagcca	tcacattctt	atttcagcta	gcaaaaaaag	agggagtggg
50221	aaagggcttc	ccagaagtta	aagataccat	ttctttttac	atcccattga	ctagaacgta
50281	gtcatatggc	cacagtgagt	tgcagtgggt	gatgggtggaa	atcatcttta	ttggcagagc
50341	acagtggctc	atacctgtaa	tcccagttact	ttgggaggcc	gaggctgggtg	gatcagttgg
50401	ggtcaggatt	tcgagaccag	cctgtccaac	atgggtggaac	cctgtctcta	ctgaaaacac
50461	aaaaattagc	caggcatggg	ggtagctggc	tgtaatcca	gcaactcagg	agctgaggc
50521	atgagaatcg	tttgaaccca	ggaggagggtg	aagggtttccg	tgagctgaga	ctatgccact
50581	acactgcagc	ctaggtgaca	gaatgagacc	ctgtctccaa	aacaataaaa	agagatcgct
50641	tttatctaga	atagtcagt	gccccacata	aaaaaaaaaa	aaaaaaaaaa	aagattttat
50701	gacaaataaa	gaagatgctg	aaaagaaaat	tagcagtttt	gtccacaggg	gcctaaacca
50761	catgaatact	gatgacaatt	gtcaaaattc	ttacagctag	tgtggtagac	cagaaaccct
50821	ctgaagcctg	ctgcctttct	aggtaagagg	ggattgtcgc	ttggatccaa	ggggagaaac
50881	gctctaggac	gttccagaat	tctggcccca	gaagcatcta	aaaccctcat	tagcactgca
50941	aggtaaacat	aatccttct	ctgtctgcct	aggcctgggtg	ccttgaagcc	tcagcctgag
51001	cacagggacg	tggtgtgttt	tcttcaccac	ttgatcctcg	gcttctagcc	caggcctggg
51061	cacacacagt	gagctctcaa	agacatgctt	gtgaagctga	tgaatgactg	ctagattcaa
51121	ctccctccca	tataaataca	taactatttt	tcacatgtat	gtacatatta	aaaagtagcg
51181	ttgaattcac	atcttttctt	ttcatgtgta	ttttactagg	gaatgtcgaa	gtgtgtgtag
51241	agacaggaga	ggcagcactc	agattcttgg	gctagactgc	tcaggtttga	ctccctaatt
51301	ggctgcatgc	tagctatgtg	accttgagca	aggtagctta	cttctccatg	ccttcgtttc
51361	ttcattgtaa	aatatgatca	taacgatact	ggtgtctaca	gggttgccat	gaagaattaa
51421	tgagtcaaca	tttatattat	ggaaattgtg	catgtgtatc	gcttaaaata	gtgattggca
51481	cagatgtttc	aataaaaaca	aattattaaaa	gtacaagtac	cgttttgcaa	agtcattttt
51541	taatgtcgta	aagagattct	cctctgaac	agagctgaaa	agctgcaacc	tagccttagat
51601	gacttccaat	ttgacagctt	tttaggtcca	agcatttctt	aaaagtgtctg	tactcccaag
51661	agtgaggcag	ttcgtcatct	tcaaaggcag	tttgtgctgc	atctcctggg	tgccagacc
51721	tagcttaaa	agatacgggt	tgttctaaga	gaaaagacac	actcccaccc	tcttttcttg
51781	gctaaggaac	ccagtgcagc	cactgactgt	atttctctct	ccaactcttc	cacctgcaa
51841	ctcgcttgct	tcatagcatc	tcagcagctg	accatattgc	aaacagatca	gtttcctttg
51901	atgccctgga	ccagacgagg	tccatatgag	gttctcaaac	aaagcttttg	ccttggtttc
51961	aaacaactta	agaagatttc	aaaaggaag	acgtgctcta	ttttctcagg	atcccttttc
52021	ctgctcaaac	agaaagaaaa	gccaagacc	cagggaggga	cccagtgata	cagacagaca
52081	gactttgaga	aggagacagg	ataaggaata	gctgcaaaag	ttagattact	tcctaaagga
52141	tggggggtgga	atatgtgatc	tttatcta	cagacagtct	actcaggaag	tccccgagat
52201	caaagcaagg	ggctttttat	ttagcactgt	gtcaacttga	aaacagtcct	ggcaaagcca
52261	cagatctgga	taagctcaca	cctctcccca	cccccgctgc	cctgacctgt	ctctcagcat
52321	ctgaactctc	ttaacattcc	atttagaata	aaatcctggg	ttaaaaagag	tccctgggat
52381	tactgtagga	agagacaaca	tttgacaaag	caaggcagaa	aacgccacag	tccttcctga
52441	cttcagaac	aattgggtgc	atactgtggg	ggaagacacc	accaggcat	tgtgtcacag
52501	cgtctcggag	gaaaaaatag	aactaagagc	aatcagacca	caacatggaa	tagggggggc
52561	aagagaacag	agctacagtc	cccaaatatt	acttgctaca	aagaataaga	gagtcggtag
52621	ggttggggta	tgtccttgta	aagcaggaga	aacacattga	agaaatgtgt	tgaagaaaag
52681	acaggggctt	gagaagacta	gggactgggtc	caaaggaagg	gaggtcactt	actggaaaca
52741	caatgactca	ggcggagcaa	ggcaagaaag	ttggaatcac	actgcaaagg	tagaaagagc
52801	tcatcttctt	ggatgaaaga	ctattgaacc	gtgggtccca	taaccagtg	tgttaccaaa
52861	gagaaagaac	tcagccctat	tcctttccca	atgtaactta	tatcctacca	aatccagtat
52921	ctaccaaaaa	acagataaat	gcttcagtat	gatactattc	atatgaaact	acgttttctt
52981	ggccattttac	ttgtttaggc	aacatatagt	atctcattta	atctttataa	ctaccatacg
53041	actataattc	tcatttgata	acctgcattt	attccttttag	acctgatttt	ctttatacat
53101	gtcatggact	actcccagag	tttaattacta	aaagaatggt	cttaaatgag	agtatttagt
53161	atttatcttg	gaaaaaaagc	cttcttcttc	aatcccagaa	ttttgaaatg	aaggcttctt
53221	tatggaagaa	taaactaacc	aacagaaaat	cattgggtta	ttctttcata	aatagatggg
53281	ccaaaatatt	tttgggtctcc	tctgacccaa	aaaattgtta	atagcctgaa	tgataagaaa
53341	tgcatctttt	cttgtgagtc	tttctgagtt	tctatttagt	tagctgcttt	taggggtgtg
53401	gcttctctaa	gaaatgttat	ctatctccct	tcctataagg	acaacaactt	gcagtgggtg
53461	gaaattatta	taagtcgaga	agtatttgca	gtaattgctt	gggtgccctat	aaaaacatac

53521	tgtaacttttc	aggtactatc	cctgggacct	agctgtgaaa	tcaactttca	taaccctcac
53581	gaatgcttgt	gtacctgttt	acaacaagtg	gctgtttaca	aagcatgtcc	ccatgggttg
53641	tctctgactt	tcacagcccc	acctcacagg	taagggaaca	gaagatgaca	gcaagggaatc
53701	aattagctta	aaaattcaca	gagagttgta	gggaacaatt	gccttgctag	ctgcaagata
53761	taactaaatg	tgaggtgtgt	tttttaaata	tgacttctag	ctccagaact	tgtgcagctt
53821	aaaagtgata	ggcagtgacc	aaagatgcag	aaaagaggat	cttggtccaca	ttttaggcag
53881	gggtgtagaa	tttaaattta	catccttact	tctcactgaa	aactaacagg	tcttaattgt
53941	gattagatga	gagacttttg	gaagaaacta	agtttcagtt	ggctttaatt	atgccttaat
54001	catgctcatc	tatttcaa	attaaggaag	cttgactggg	aatgggtaga	aagggctaga
54061	aaatgaaaaa	caaaatgatg	cctacaaagt	gtcttcacac	cgctttcaat	tttccaggca
54121	taatctcttc	ttgaggttgg	tgtcaagcca	gggtgcagga	acagcaccta	gcaccactac
54181	agaaagcacc	tactaaacaa	attattagat	attacataca	tttgaagctg	gaagcacgct
54241	tagaaataac	ctagttttaag	tttcttattt	tctggatgag	aaaattaaac	cccaggaagg
54301	caaagagact	tgctcatgca	gctgaagaaa	aatacaagga	tccctagctt	tgtgaccac
54361	attttaacac	catctgaata	gaaaatattt	gtttcttttc	ggcttcttat	cctgttagtg
54421	cagctatttc	tctattgctg	cctcaaagaa	acaaatcaga	atgtttctgt	ttattttata
54481	ggtagtgttc	caaccaggga	gctcctggat	gcaaggaaca	gagagccact	cgacctaatg
54541	gaccaccaga	gggtgcccac	aggacagccc	gacaaatggg	gtgaggtggg	gggatggccc
54601	tggagtgtct	cccttctcac	gagaaacgca	tgtggtatca	caactgagac	ttatcttttg
54661	ttcccatcaa	gaagttagag	gtctcaggtc	tcttctgaaa	tgcgaggttg	cacatctgta
54721	ttggggaaga	aaatctgcaa	cacgtgccaa	cctcgtgctt	aagatgtatt	tgtttcgaac
54781	tcctgcatgc	ttgctcttct	ggatctgtgc	tccataaata	aaatgggaag	aaatatgtca
54841	ctttgatttc	cacacaggca	gagagaggtt	gtgattagat	gtcatgagag	ggccacaggt
54901	ttctgctaca	ggaaagggtga	tagggggatt	ataaatattca	cctttcccca	cctgttttcc
54961	tggaacagtt	acctagtgtg	ccccagagaa	tcgataatgg	gtttagacaa	aaaccctgtg
55021	ttcccttcgg	aagacgaaat	tcctttcaga	agaaagccag	atccagaata	atcaattaat
55081	tccacctgta	tcaaaactgt	gacatgtggg	taatatccat	tcattccttc	cctttgataa
55141	actaggttca	tccatttgaa	cctgattttt	cttacctgcc	agtaattact	ccgagaactg
55201	actcttaaca	gaaaattttt	caagtataat	atttgacata	cactttaaaa	gaaaacattg
55261	ttctttaaat	ccagcatttc	aaaatggagg	tttccttatg	aatatagaac	accaatacac
55321	acgtcgacca	tcaaaaaagt	ggtagctaca	aagaggtagt	cctatcttac	cacctcttta
55381	tagtcacatc	ttccacccaa	ccctcccaac	tccgggtaac	cactgatctg	ttttccatca
55441	ctacagtttt	tgaaatgtca	tgtaacccaga	aacatgcagt	gtgttacctt	tttgtgagtg
55501	gtttctttcg	ctcagcataa	ggcctttgag	attcatccaa	gttatcatat	gtgtcagcag
55561	tttattcttt	tttattgctg	agtagcattc	catgtatgga	tgcaccagag	cttgtttatc
55621	cactcgctta	ctaaaggata	tttaagtgtg	ttgtaagttt	tgggaaatta	tgaaaataat
55681	tgctataaac	atttatgtac	agatttttat	gtgcacctaa	gatttcatth	ctctagggtta
55741	aatacttagg	agtgggaccg	ttgggtcatg	tagtatgtat	atgtatatat	tcgatttaag
55801	tatatgtata	tattcaattt	agtaagtata	tgtatatatt	cgatttttca	gagtggctgt
55861	accattttca	tctccagcat	caatatgtga	gtgttccata	catcacata	ctcagttgct
55921	acacatcctc	accaacactt	ggtatgaatt	ttttttattt	tagccattct	aataggtata
55981	tagtggatc	tcaacatgtt	gttagtttga	tttccttagc	gtttcatgat	gttgagcatt
56041	tttcatgtgt	ttctttgcct	ttcataaaatc	ctttttgatg	gtatgcccg	tcagggtctt
56101	tgttcatttt	ttaaattggg	ttgtttacac	atgattatct	caatagatga	agaagaggcc
56161	ttcaataaaa	ttcaaacacc	cttcatgtta	aaaactctca	ataaactagg	tattgctgaa
56221	acatacctca	aaataataag	agccatataat	ggcaaaccca	cagccaatat	catactgaat
56281	gggcaaaagc	tggaaagcatt	tcccttgaaa	attggcacaa	gacaaggatg	ccctctctca
56341	ccgctcctat	ttaacacagt	attggaagtt	ctggccagga	caatcaggaa	gagaaagaaa
56401	taaagcatat	gcgaatagga	agaggggaag	tcaaattatc	tttgtttgca	gatgacatga
56461	tcctatatct	agaaaacccc	attatctcag	cccaaaaagct	tcttaagctg	ataagcaact
56521	tcagcaaagt	ctcaggatag	aaaatcaacg	tgcaaaaatc	accagcattc	ctataacaaa
56581	caacaggcaa	ccagagagcc	aaatcatgaa	tgaactccca	tgacaatttg	ctacaaaaag
56641	aataaaaatac	ccaggaatag	agctaataag	ggaagtgaag	aacctcttca	aggagaacta
56701	caaaccactg	ctcaagaaaa	tcaagagaaga	cacaatggag	caacatttca	tgcacaagga
56761	taggaagaat	caatatcatg	aaaatggcca	tactgcccac	agtaatttgt	agattcagtg
56821	ctatcccat	aaactccat	cgacattctt	cacaaattag	aaaaaaaaac	tattctaaaa
56881	ttcatatggg	acaaaaaaga	gcctgaatag	ccaagacaat	cctaagcaaa	agaagcaaa
56941	ctggaggcat	cacactattt	gacttcaaac	tatactacaa	ggtcacagta	acaaaaacag
57001	catggtactg	gtacaagaac	agacacatag	accagtggaa	cagaacagag	aactcagaaa
57061	taagaccgca	cacctacaac	tatctgacct	ttgacaaact	tgacaaaaac	aagcaatggg
57121	gaaatgactc	cctattttata	aatggtgctg	ggagtgtctg	ctagccatat	gcagaaaatc
57181	gaaactggac	cccttacta	cgccatatac	aaaaattaac	tcaaaatgga	ttaaagactt
57241	aaatgtaaaa	cccaaaaacta	taaaaatcct	agaagaaaaat	ctaggcaatc	ccattcagga
57301	cataggcatg	ggcatagatt	tcatgatgaa	aatgtcaaaa	gcaatctcaa	caaaagcaaa
57361	aattgacaaa	caggatctaa	ttaactaaa	gagcgactgc	acagcaaaaag	aaactatcat

57421	tagagtgaac	agacaaccta	cagaatggga	gaaaattttt	gcaatctatc	cacctgacaa
57481	aggtcctaata	ttcagagtct	acgaggaact	taaacaaatt	tacaagaaaa	aaaaccaaac
57541	aacccccatta	aaaagtgagc	aaaggacatg	aacagacact	tctcaacaga	agacatacat
57601	gtggccaaca	aacatgaaga	aaagctcaac	atccctgac	attagagaac	tgcaaattaa
57661	aaccacaatg	agataccatc	tcacgcccgt	cagaatgggtg	attattaaaa	agtcaagaaa
57721	caatggatgc	tggtgaggtt	gcagagaaaa	aggaaccctg	ttacattggt	ggtgggagtg
57781	ttaatttagtt	caaccattgt	ggaagacagt	gtggtgattc	ctcaaatatg	tagaggcaga
57841	aatatcattt	gaccagcaat	cccattactg	ggtatatacc	cccaaaaata	taaatcattt
57901	tattatgaag	acacatgcac	acatatgttc	actgcagcac	tattcacaat	agcaaagaca
57961	tggaatcaac	ctaaatgcc	atcaatgata	gactggataa	agaaaatgtg	gtacatatat
58021	aacatggaat	actatgctgc	tataaaaagg	aatgagatcg	tgcccttgca	gggacatgca
58081	tggagtggga	agccattatc	ctcagcaaac	taacacagga	acagataacc	aaacaccatg
58141	tgttctcact	tataagtggg	agctgaatga	tgagaacaca	tggtcacatt	gtggggaaca
58201	acacacactg	ggacctgtag	gaggggtggg	ggaggagag	catcaggaag	aatatctaata
58261	gaatgctggg	cttaatacct	gggtgatggg	ataatccgtg	cagcaaacca	tggcaaacat
58321	ttacctatgt	aacaaatctg	cacatcctgc	acatgcacca	ctgaacttaa	aataaaaatt
58381	gaatttaaaa	agtttaaaaa	attaaataaa	acctaatttt	aaaaagtaaa	ataaaaataaa
58441	attgggttgt	tttcttactg	ttgatttctt	tcttcagcat	ttgtagcctt	tggcataagg
58501	atcctgcatg	ttatattgga	tttgtaactt	aaacatttca	ttttttgaag	ctattgttaa
58561	taattgagat	agaatgaatt	gtgtccctgc	cacctccctg	ccaaaaaaat	ttatatgttg
58621	agatcctaac	tcccagtaac	tcagaatgtg	actatatttg	gagatagggg	ttttaaggag
58681	gtaagttagg	taaaatgagg	taattagaat	ggtgtaatgc	aatatgactg	gtgtaagaag
58741	aaatttaggc	acaaacaggc	acagagaaga	ccaggtgaag	acaaaaggag	aagacagcca
58801	tctacgaatc	aaagaaaaag	ccctcagaag	aagtcaaac	cactaaaacc	tgtatctcac
58861	ctttctagct	tcctgaactg	tgagaaaaata	gatttctatt	ggtcaagcca	ctcagtctgt
58921	ggcactttgt	tacagcccca	gcaaataaat	atagtaatat	gcttttggtt	tttttcattt
58981	cagtttcaat	tgttcattgc	ttacaaaata	aaacaacttg	tttttggtgt	tactttgtat
59041	ccttgccacc	ctgttatatt	cactattagt	cctaggagtt	tattcttaaa	gattcttggg
59101	gattttctac	ataaacaatc	atgtcatctg	caaatagaga	cagttttttt	tttcttccaa
59161	ttgacatgtc	ttttatttct	tatttttgca	attacaacag	ttaggacttc	cagtataatg
59221	gagaataaga	gggataagag	tggaacatcca	tttttcacca	ttaagtataa	ttttgactgc
59281	ggagattttc	gtaaaatatca	ttctcaactt	gagaatgttc	atcttggttcg	ttgagagcct
59341	ctatcatgaa	tggtatgttat	gtttgtcaaa	ttcctttttt	ttttttaatc	aagtcatagt
59401	cttgctctgt	caccagacc	agagtgcagt	gacacaatct	caactcactg	caacctctgc
59461	ctcctaaatt	caagcaattc	tcctgctcca	gcctcccag	tagctgggat	tacaggtgcc
59521	tgccaccaca	catggctaata	ttttgtattt	ttaatggaga	tggaatttca	tcagtgtggc
59581	caggctgtct	gaactcctga	cctcaagtga	tctaccgcc	tcagcctctt	aaagtgcctg
59641	gattacaggc	atgagccacc	acgcctggct	gtgtttgtca	aattattttt	ctgtatctat
59701	tgatatagtc	atgtggtttt	cttctctcaa	ttgttaacat	gtggaattac	attgattgat
59761	ttttgaatag	tgaattagtc	ttacatttcc	tagctaagcc	tcagttgatt	ttctacattg
59821	ctatatatta	ttttctaata	ttatgatgtg	gacttttgca	tctatatatta	tgagagatat
59881	tagtctgtag	ttttaatttc	ttgtagtggc	gttaattttg	gtatcaggaa	aatactggcc
59941	ccataaaaaa	ttggaaagct	ttggctcttc	ctttatctcc	tagaggagat	catgtagaac
60001	tgttattatg	tcttctttaa	atgttttagta	gaatatgtca	gtgaaactac	ctgagcttga
60061	gatttccttt	tgtggaagat	tttaaaactat	ggattcaatg	tatttaatat	ttatagaact
60121	attcaggtat	ctatttttatc	ttgggtgagt	ttagatagtt	tgtggctttt	gagaaattgc
60181	tttatttcat	ctggattgta	gaatttatat	gcactgaggt	gttcatagta	tttctttttt
60241	atctgtctaa	tgtttgacga	gtctgtatct	tttattcctg	acattagtaa	tgtttgctct
60301	ctctcccttt	tttctttatc	agtcttgcta	gagttcataa	attttactga	tcttctcaaa
60361	gaaccagctt	ttggtttaat	ggatttggtg	tattgttttt	gtttgtttgt	tttcaacttt
60421	accaagtttt	tactatatct	gcatgatttt	cttctgtctg	ctttcagttt	gttttgctct
60481	ttttttcttg	ttttaagggt	ggagcttaga	ttgagttgag	ccctttctta	ttttctagta
60541	taagcattta	atgctctaaa	tttccttcta	aacactgctt	tatctgcac	ccacaatttt
60601	gatatgttgt	atttttattt	atgtttgttc	cctctgtttt	ctcaatcctc	tgattccact
60661	ttcctgcctt	ttagggaggt	tattaaacat	attttagtgt	tctaagacat	tttacgtaag
60721	tctcagacag	acattcccaa	caaactatag	acgggtgcct	ccagattcaa	gacatagctc
60781	aaattaatga	gaaaattcag	gagtttccgt	ctttaagaaa	agttattaca	tcaaaaaatt
60841	taagtgcatt	tccaatagaa	tagaggtgat	tctttacatc	atcaaaaatat	ttattaaaca
60901	attctatact	gaagcaccac	ccagttcccc	atttctgata	aagaaaagtc	tcagctttgc
60961	cttgagagaag	gagaatcacc	tctgttccat	acataattcc	tgtgatttgt	gctatataaa
61021	cttgacttcc	atttttgctg	aagctagtta	gaggtgttac	tgtgtgtgtt	ttgggggttt
61081	ttttgtggct	tttttttttt	ttttctgtca	cttgcaactga	aagagtcctg	gtgactaata
61141	caaattcctc	taacaggaaa	ttccacagtg	cttttttaag	tattttttta	actttactcc
61201	cttctttatt	ttccgtgaca	ctggctcagca	aatttcacaa	agacaaggac	tgtgaccatc
61261	ttgctcacca	tgcaatattc	tgtgaccaat	acctaatttt	gaataaatga	caggtctctg

61321 gttttcagtt gggatttgtt tgggtcagga tgcaaagga ttaattgacc catttaatat
61381 aatgatgctg gagcacgttt taatgttcgg tctcattgaa gaaatgaccg taagtggctc
61441 gatcctcaag taatttccag tatgacttct ttccttgggc catggcatgc atttactgtg
61501 tccctgtaga ccacaaaaag attttcctcc catggacaat ttctgacaat gttctttgtg
61561 gttttgaaa tagagattac ttacttcaa attgtgttaa catgaatttt gtctattaag
61621 atccatacat gtgtgttggg ccaactaat atgtgtggg gccagtgca aatgaaaat
61681 gtggggcccc tgtcaaaaag cagggggtaa atgccatgaa aggtactgaa atataaagct
61741 gttttctctc ttccacagtc tccctcttga cttgtcatca tgttgtttat ttgctattta
61801 atgttgctct aagtaaactt aaattataat tttaagttct tagcatgaat tttatcattc
61861 atctttatat tgtgcaatgc cagttttaa tgcaataaa gagcttttaa tgtgtgtgaa
61921 gaatcaccaa aattaaaaaa tttggatcta tagctcatal atgtgtatgt atttaattct
61981 taccagacca atgaaaatgc tgcacaaaac taacttgact gtttttgttt tacttattca
62041 tataactcaac ttctaccaac attccctaac tggggattag tgatgaataa ggaaggactg
62101 aaaagaaaag aaaatataga ttatcctacc ttttccactc tatgtcattt tcagcatatg
62161 tggttggcta acataggcta tgataagggt ttttgttcat tcatgattca tccaatgcca
62221 ttttcttctt tctgcattca aagcaaattc tgggtggaac ggaaagtgtg gcctttgggg
62281 ctgtcagggc tgttgcttga tttgtatgtt gtgggtataa catgcttcga gtcttcttga
62341 actcctgtgc atcgccagaa ttccgtgtc atgggccatc ataactat acgcaaagt
62401 gcagcaaagg agagcagaca cacaattca cattttgtac agaactcttc tgcttatgtg
62461 catgctccgt ggctccatca gacttcactt acacaatata acttaaaatt attaacagca
62521 gaacatccca ccaagtgtgg ggcccttctg agcatggctc ctgtgccact gccatggat
62581 cacatgccc tgagccagc ttggcatgta cgtggagaaa gtaacaataa agtgattctg
62641 cacttttcat ttgttttgtt atttaccaca cacttgactc cctgggaaat ctgtggaat
62701 aagtgtgaca ttttgagatc attaactact tgacagggga ggagagagaa atttaagca
62761 aatgtgtcag aagtcatacc tgattaaaga tcaatccaga acaaagataa aggcacctta
62821 gaaattgcaa catcagtcaa gagcaagatg agatttgagc ccaaataatt tagggaaagg
62881 tcagttatgt caaggaacac agagctgtc tctccaaagc atattttaa ataaaatattc
62941 acgttttttc cacctgccac aaactcttta cactgccttc ttttaaaatg atatagttga
63001 tgtttcatal ctaagctacg atgttcaaac ttaaacagct tggtgccaca atggggttgt
63061 tgttcatgtg aaaaataatg cctcgttgtt ctatcaacaa aaaagtacat attataatga
63121 gttaaatgta acatgccctt tacacaacat aaaaagtatt tcttgcttcg tttttattac
63181 ttttttattt ttgaatcttt taaaatgcat cacacactta ctttctctct caacagctatc
63241 caatttagcc tttcgttgaa gactaaagat tgtcagggtta aacatcaatt atgatacttc
63301 caactggatt caacacgtat ttactcaggg agcactcaca gggaggcatt atgccagag
63361 aaatggcaat gctattcagt gtttatgatc ccaactggag aggaaaggca gatgcataat
63421 ttcaaaattc ctggcagaac acagcaagtt ccattatata aacctaaca agtaccatgg
63481 gaacacgtaa ggatggggga gggagagtac atcatgggaa tttgagtggg tcttgaagga
63541 taacctgtga tggtaaagaa ggggtgtgcca agctatggaa gtcacagggt tgaggcagaa
63601 atccatgggt gtgaaataga gcagggtgtt tactagaac cacaggcat atatttgga
63661 atatatagaa cagtgaaga gagtgaact aatatctaca aaccacaggg agctgtagaa
63721 ggcttggtaa ggaagatgg cactgaatt acactttaat gcaataatgc attttgaaat
63781 gtgtaggact gtttgaaact gtcgtagtat agaaaactgt gtactattta atgtgttctt
63841 ttaactgggt attctgtcac ctttctcttt tggcttgcca actatctctt cttaacgcta
63901 tcaaggata tgactctagt agcatctaca tctaactttc tactaaaatt ctgcttctag
63961 tctactaaaa gcttggatag taaataacca agattattag tattatattt aaataagtac
64021 acataggcta tgagaaatag actgaaattt actatttttc tagactgctt actatttcac
64081 ttagtgaaaa acaaggattt gcctaagact aaagcacatg ggtctagtat ccaaaaaaga
64141 ttaaaatttc taaaggaaac ttctgggttaa aagtagaatt gactgtgact atttcttctt
64201 cctacccaaa tctcattaaa atgacagtca aataatttta agaaacaaat tcatagacaa
64261 ggtcaaaaag aatgagagac catttgtcat aaatgttttc aacacatttt tggagggtga
64321 gaaatggatg gaagaatggt aattaccttg gcagaataaa gcaaagggaa aaccaaatgc
64381 tttcagacaa gcaagaacag agcagcttca ctctgcagga gctctaaatt gctcagtgtc
64441 tataagcagt gagtatttca agaggaagat gagagcaagg cccactgtgg aaaaagacat
64501 ttgttgaaag tctaccacag cacagctgag cccattaaat ctcctctctc attgtgtgca
64561 tccacacaac tctttaccag cttcctggaa gaaagtgtga ggtttattct ttggagtaaa
64621 tgtatttggg gagcatgacc agagaagagc atagataaag caaagggtga gtaaaagtct
64681 actatggaca cccccattc ccttccctat gctccttcca gaactctccc ctcacctatg
64741 cacacacaca cacacacaca cacacacaca cacacacaaa cagacacctt ggcaggatg
64801 ttagatttct ctccaaatag tacaagaaa aggcctatag ataagacat ttacttctg
64861 ataaccctat gatgaagttt ggagaaaagc cccatccgtg atttttagagt acccaatcat
64921 agtgtcttac tcttgaatat aaacatacca ccagcgatct gcagagtctc cagcatgaat
64981 gaatgaaatc aaaaagaaaa aaagagttaa tgtaggaatt aataaaaaat gttaaaaata
65041 gtattcatgt tctcagataa gaaaagatat tgtatcatgc tggtgtgagt aatgaacaca
65101 gaggaaaaaa aaagagctct tgaaaaataa aaaatataat tactgaaata cttttaaatg
65161 taatagaag ttgacaagg tgaaaaaatg tccagagaga agaggcaaac agcaaaagca

65221 aaaagaaact aaggaaaaca aattagagga tcaatccaac cacctccaag agaagttgga
65281 ggcagacaga acaggagagac aaacagagag aggagagaaa attgtcaaag aactcatgca
65341 agaaaaat ttt cccggaacta aaagaataaaa tttccaaact gaaagagttc tctgagagtc
65401 taagacaata aaagatgaaa aatttacacc aaggtgcatc actgagaaat ctgagaacac
65461 agttaaaaag aagatcttaa acgcttcacag gaaggaaaaa aacacattac atagaaaaga
65521 atacaaatcc aaaaggcttc tcaataacag taagtttcca gggggcccaa aggagaatga
65581 gtttcaacca gggctgcttc tctgggtgtgc taccactgac atcacatagg gccccgctt
65641 cagaaggggg cctcacactt ggctttaatg gtgtggctgc cattttgaaa ttcttaatac
65701 ttttatcttt gaatttgttt tgtaagtaaa gaccaatagc acagtagtgc atgccctgag
65761 cagtcttggc tcatgccccg tcctgccccg tgcctcctct tatctcccag ggatgggttc
65821 ttggctacct cctcccctaa cgccaccacag agatcactgc tggcctgtgc ccgcatgga
65881 agaattgagg ttggggccagc acatcctaca cacttagctg caagtccagg ctctgatgcc
65941 tatgaaggtc tacactcacc cctcaagtat gccagagcct gaggcagtat aacattaact
66001 aggaaattag acacatcatg aaagtgttag agagaccatc ctagaaaagga aaaagctttt
66061 ttcctgttct ttgtaaaaaa gacttttaag tatttatatt gcattgggct ctacaaatta
66121 tgtaccacgc cctgatgtca atgttttctg cctaaaaagt gagatttttt ttttgtatct
66181 caaaaatctc aactatgagt atcactaaag ataaaaagag caggtagctc taacattggg
66241 tgatgtataa ctacaccaga atgggtccag tgtgaacctt gggcctccca gttgggggat
66301 tcccagtttc aatgagtctc ttctgagcca cactctgtct actggatttg aatgctggca
66361 tcaggcatcc agccagcaat gatttctgat gaaataaaac agtttcagat aggactagat
66421 gtttccaagg gaatccatga gaagatttcc aggttcgatg tttttgatgt atgaatagag
66481 gcaccagaat tcagagggat tctgggggtt tgtaacctca agttaaagca aaaccatctc
66541 aagtgggggt tgagaccgtt aaaattggct ccaggaacga ggaggatttc ctctctggg
66601 gaatttttaag aggaatattc tggctcacct ggaaggacac agttttgacc agaggcaaca
66661 aggtgggggag acccagacag actctctaag cccctcccat cttgtgagtc tctgattttc
66721 agtttttttag acgccgaggt cattgccagc tatgagaaga gccaaagtcta gaccttgccc
66781 tttgaagtaa gcactgctac ttgcttcaca cagctcctca ttcccaaagc attttattct
66841 tccctgacac cttccccctc actgccaccc ccaaactctca gacctcactg gatatggtga
66901 cctgacaact gccctttaca tggggatttg tatggtaa at tgccactaag agggccctga
66961 tccacacctt cctcaccaat ttatgctgtc gtggctttca gacagaaact ggggaattca
67021 catgtggcag gcttggcggt tcatcagaca ggttctatta acttggtcac cagggtgtaa
67081 ccatattatt tcatgcttct tggtaacttt ttgtcaacac aattaccttt gacagtctct
67141 gagtgggaca gcaattttca gcaaattgtt tcggtaacca gaggccagaa ggaaaaggaaa
67201 tgtgagtgtc tcagttaagc tttgagtgtg gctctgacag ctcttcagca cctctgtcgt
67261 gttataaata ggaatttggg ggaaatttag tacacatgga acttacaaaa ggggggttag
67321 caaggctgat gatggcttct actgcattta agaaagcatt tgccttacg ttaccagaaa
67381 agggctctga tcgagacccc aagagagggg tcttgatct tgtgcaaaga agaattcgag
67441 gcaagtacat aaagtgagag caagtttatt aagaaagtaa aggaataaaa gaatggctac
67501 tctgtaggca gagcagccct taggggtgtc ggttggctat ttttagagtt atttcttgat
67561 tatacatgaa acaagggtgg attatttgtg agttttctga gaaagagaca ggcaattcct
67621 ggaactgagg gtttctcccc tttttagacc acatagggtg attttctgac ctgccatggc
67681 atttgtaaac tgtcatggtg ctgggtgggag tgtaattagc atataatgag cagtgaggaa
67741 gaccagatgt cactttcatc gccatcttgg ttttgggtgag ttttggccag cttcttcacc
67801 acatcatttt ctcagcaaaag tctttatgac ctgtaccttt tgccaacctc ctagcccatc
67861 ctgtgactta gaatgcctga cctcctggga atgcagccca gtaggtctca gtctattttt
67921 accagccctt gttcaagatg gacttgctct ggttcaaacy cctctgacat acagtataat
67981 aagtcctacc atgatgaaat tcttctgagc tccaaaatac agtaggttgc aaggattttc
68041 tttcagtagg gtttcatgct aaagatgttt tgacatcctt cacaccaatt cctcattgca
68101 aagaatgtga cattcacgtc ttggacttgc ttgaatttac agtgccttca gcattcttg
68161 aagatatcca agaaagatgc agtccaccct ccaagtattg atttctaate tcaggaaaaa
68221 ggtaagcagt catcacagat gggctgttcc aaatctggtc ttacagagta agcaattgaa
68281 ttgcttctcc aactcctca ccatcaccac catcaccaat acacctacac acaaacacac
68341 atgcacacac aaatacacac acccatgcat gcacacatat acatgcaata gccactttct
68401 aagcacaata caaaaatacct gcagtctcta atcatacatc ataggaaagg aaaagagcga
68461 tttggccacc aaatcatcag gtattaaagg gattgatcac acacaatttg taaatctgct
68521 gagtttagga ctggcagagt tgaacacgag gtcacatggc cacaaataca tcctggagca
68581 tatgtctgta cttgaatccc attggcctgg tacacagcaa aacttcctt tgacacacc
68641 aagagaagag tctggacttt gctcccattt catgaacaat gtttcacagg caagctttct
68701 tttgatctcc agtgactaga cacatgatat catcagctct aaatcaagcc acatttttac
68761 cctctgcctg aaatgggtgag gacaacgcca gctaactctg aacatgttgc agatagcaac
68821 atctcctggg accatcattt ttcaccttct ttatttgttt agcagccact ttgtcaatta
68881 aagctgggtga tattttcccc agactcagag aacagaattt tgattataaa ctttctcttc
68941 atatctcatc cttaccaaag tttgacattt agccattact gattttgaac gaattttcta
69001 catgtctggg ggctttgttc ttgccttaca tgtgattttt tttttagac accaataata
69061 caaaaagtga tctgcatagg atatgatata gaataactca agtagacatg gcctttcttc

69121 ccccaaatga aacaagtgc agtatgtcaa cctttcataa gtgttgaaca ttcattcttct
69181 gcttgggtta gatgatgaga ggaggacac aaaagccagg gattatgtat gtaaccaagt
69241 agtcccagct cacgctcaat atgaaaacag ttaggttgaa gtcttttgct tgattccttt
69301 aaaaatatta atagcagctt ggagtccttt tttctcttat tatagaaaca caaagtatgt
69361 ctgttacaca agcatgtcag gaagcacaag caagcacaaa ggagaacaag aacaaaacaac
69421 ccataaatat tccaattttt tcactctggc gtctctacta cagagtctga aaaaggccaa
69481 tactatccag cctccttgca gcttaggtgg gcatatgaca catttctagc taatgagacc
69541 tcaacaggga aaaacaggaa caaacacaaa aaaacatctg gggagattcc agattctccc
69601 atcttccttc cttgatataa gcttcagctg ctgtcttgag accatgagac agttagccag
69661 cctagcatga ggaagacagc caatatatta aggatgacag agtgggcctg caggcatcat
69721 tgcaacaccg aaccaatgcc agcaacctcc tacctccaga tgttttatca agtaagacaa
69781 tcaactgccta cttatttcaa cgactactga ttgggttttc tgttatatgc agcattctaa
69841 ctgatactcc caactatcta acaaaaactc catcatacca gtatacatta ttcaagtgtg
69901 tttgtctttt ttttttgctt agatttacct tttgttatt tttttatttt tatggatata
69961 taatagatgt gcatatctgt gaggtagtgc tgatattttg acacaagcat acaatgtgta
70021 attatcaaatt cagggttaatt aggttaacca tcaccttaaa tatttatcat gttttatggg
70081 ttataagcct tccaattcca ctctcttagt gattttgaaa tatacaataa attattgcga
70141 agtcttttgc ttttgcagaa gatcaaatac atgtcttttt gcttaagctg aaacattaca
70201 aatttaccac tgaaatcaac ttcagtaatg attttactct tataatgata ataatacatt
70261 atattctcat ggcaccttag ctttcattat ctcatatt gaattctcat tttggaagta
70321 agaaaaatgt agcacagaga gattaagttg cccaggaagt agctggggct taaattcaag
70381 tattgtgact acaaaacttt tctcttttca gtaatattat gtgctgagtc ttcttcagtg
70441 agttctagca aatctgcaga cctacagctt ggggaatgag taaacaggag ctgtcagttc
70501 taaagtgcagc ctagctatca accacattga gagcaaaatt catttctcaa cagggtcacc
70561 aagactgagc atagagttct tccagaggta gcacttgaat aatcatgtca tcaaatgtca
70621 tcgtggtagc agagaataag catgctaact tttcccagtc ctccagaaaa aggatacttt
70681 tgtcttttct tttccaattt cttttaccca tttgggagag tatgccacaa atgtggtttt
70741 taaatatatg aaccgatgct tttatcctaa tagttaagaa catggccttt agaatcacac
70801 agagctgaat tcacatctag cttcaccact tactaggcat gaccgttggc aagttaactt
70861 cttgggattc agccctcttt tccgtaacat gagggtaacg tagtcacaat atttcaagga
70921 agttttgggg actaaatgag aaaacgtgag cttgaaaaag tggggcatat tttttatggt
70981 ctctgtggtc tcttccaatt ctgtaactct gtaataggat tcaacaaaca ttttctgtgg
71041 acttgtaatg tggccttatt ttgcatgac ctcagagtaa cctatggag ttaaaccatc
71101 ccaaaccctta gcaacttgaa acaacaaact tctatcattt ttcaaaattc tgcagatgag
71161 ttgggtgggt cttctcatct gagctggctt ggccaggctc tctcatgcat ctgtgatgaa
71221 acggagggaac agctgttggc tggctgttct aggatggcca caatcacaca tctggtagtt
71281 ggatggctat cagtgtcgca ggatgactag cagggtgttct cctcctcccg caggctagcc
71341 tgggctgggt gttcactttg tggtcacaag agagtgaaga aaagtgtgca acacccttg
71401 aagcctaagt tcagaactga cacatgttca tttctgccac atttgattag tcaaagcaag
71461 tcccaggcca gccaggat agcaggcgag gaactagact ccacccttg atgagaggag
71521 ctgtaaaagtc atgtgcaagc ctagggaagac tccgtggcca ttttagcagt cgattaggct
71581 actcagccag ttttctggag ccacacatgt gggctggcct tcccaagtct tctccgcca
71641 aaaagccaga cagagtttgt ttttccagca gggcgcatat cgcaggcctg ggtgggttgt
71701 ttgtttttgt gtttgttttg acttttagct atttccagga tgtttctttc atggaggaga
71761 acgactcagt tctgtctgcc atgtgtatta agatgagcta caagagagca ttgctttctt
71821 gtaatgcaag aaatgcaatg tagtcagagg ctctgaaatc tgggtggggac agcggcagca
71881 gagactgtga cagcctcggg acacaggagg ccaccttgg cttcagtcctt aggtgcctgg
71941 agctaccaga cagccaaagt tgcacaaggc acaggcatga cctgccaggt tggccagcca
72001 ggccagggat gacagggcac gttcacctca ccagctaata agagacaatc ccgcctgag
72061 gaatgagcgg aactccagc cctcagatga cgctgggctt gagttttctc tgctagcaca
72121 tttggagatt tcacaagagc cataaaaagt tgcaaaaggc cttggagtgc ctattcaat
72181 gaaatcacac cctcccttct ggactgggtt aaggaggggt cacacacacc cgacagggtg
72241 cctccagatg ggggtgtgta gaggatgggt ccttatccag ctccggtcac ttctacccc
72301 ttccaaaaaac ccactgtggg ccaggacaag gagaaacaag agatcgtgac tggcagagat
72361 ataggaagga atgtcccaaa aagagcaaaa aacttgctct catgtacttt gctgactgag
72421 cctctgggaa tggagccttc tcttgaggaa ataccacaac atggctcaga ggcggaaggc
72481 tccgagaagg gtccctggca gtaggggaaa atgtcccttc aacggcctct ctgacctcag
72541 gcagagcccc actcagtgac attcctgggt gagtgggcaa aatgagaaat tctcctaca
72601 attctctctg cccacagaag gtattaaatg aggtccggca agaggccagg atcaggtaag
72661 tctagaggcc agaaacctca gccaggccta cccagcactc aggaagagca gaggctcagc
72721 agcccctgag ggaggcacag cttggctctt ggaaaatggc cctactgggc ctattctcc
72781 aggtacttgg tttttggctc tagagacaat gctgagttca gttctcacc atgtgaaagt
72841 tttcaaatcc aaaagccagg gagacgcctc acaccatacc cagacagagg gacaaggaat
72901 aaaactcacc cacttccttt ctatgcgttt ctcctgcag gctgcggttc caccgcttcc
72961 aggcggctgg atggggccgc cccacccccg ccccgccgcc cccgccccg ccccaactgt

73021 gggtcctgct ttcctcagta gcaaagtgc tcatgtgtga agatggccca cccgtgtcct
73081 gtgatgtgga gctccccctc gggactcagg gaattgggag tccacctcct cacagcatca
73141 cacccttttc tttcacctgc aattcccat cgccaagcat tggctgcggg tctcccagca
73201 gacggttgca tcctgactat agaaagaaag acattagga tccaacaag tggaaatctat
73261 tcctgcagaa tccaggactt gggaggattc ccaaacctga ctgggcagcc agcccagttt
73321 ccaaggtcat cactagggcc agcaagcccc tctgtgggtc ctcccagccc accgggcttc
73381 tgcgcacttc ctgtcactcc ccactgagga atgtctctac tggtagtccc tctgcttggtg
73441 gatgtcctac cttctccctt ttctcaattg ctccaccag accgattcca tcgttccttc
73501 atttttttag agagcattct cttttctagt atttaattga ctttttgatt gtgtgacacc
73561 aataggactc tcacctgat atggggagaa gcatgacctc tagacggcca ggaagtaccc
73621 ttgatcttga cctgcaagct ctaggggaca gtcttaggga cgacctcaag attacagaat
73681 atctatatatt gcgcacacac acacgcacac acacaccctc ctgctggat tggattccca
73741 agcccaagtt ttccttcaac acaacatttg gaattagact tttcagatcc tggtaaaagc
73801 atgcaattaa ttaagtaaa tggaggcaaa ggggaggag ggtgtctaca taatgggatg
73861 gaaagttggt agggaacagg tagggagaga gactcttcat gggaaagaga gctaaaatca
73921 gagattctca ggagttaaca gaaagatctg cctgtacaga tatctgtacc caggagaggt
73981 tttctggaat gctgtcttta ttctctcaaa gatctcctag cctcatttga taacatccta
74041 tctcctggga agaaaatgtg agattagccc atggggtaa tatgaagcgt gaggcagaag
74101 ttccctgaag ccaagttccc cggcatcctt tgccttctc atgttccccg agggccttgt
74161 attcccaacg tgcctttccc cttgccaca gtgctcgcgc ctctccatct gtgtgggcta
74221 tgtgttctact ccacactgag cacactcagc ggctggcatg attcatggcc acagcaggcc
74281 cagaaattgg tcccagtggt ctccaaggtt tctctggctt gaagcacatc gaaggccctc
74341 aggtctcccc gattctgctg agctcagat ccagtaagga aatccagcct cacacaggca
74401 agcatgtcca gttaaactgc tccctcccc accctcccag cctcctcatg cacatttaca
74461 cacattcact aggtctggatg cctagaaaca tcaacctgcc tgattctgcc tcttaaaact
74521 ggtgtttatt ttcgttcaaa aaaaattgga aggacagtgt aaccacattg taggtaatga
74581 agaaaagagt taaaaatcat cattctcagt ccatctaccc tgaccaatt atttttactt
74641 ctgttttagtc ctgatttgta tgcatttga tttttaaaaa tagcagtcac cagaacgtgg
74701 ggaatttggt ggcttttttc tccaagtcag ttgcattttc tgacctgtaa ggcctttggg
74761 tgctggagtt caccaatggc tggctggcag gaccacaccc aaacgccaa cccctggaac
74821 cagctcgcaa ggcaatggag aagggcaaat actgtagtgc ctccatccct cctggagcca
74881 atctaactat ccttaacctc catggggagc tgggggaaa ttgagttgtc tccctgagtt
74941 gaacaccttt ggggtgtatcc aatggcattg ctccagccct gttccctggc atatctacac
75001 tgggggaggg agggaggtct agcacacacc ttttcccagc tgagtgtatc aaggctggta
75061 ccctgtagaa cagagccatc agtgtctctg gagaatggcc cctggcactg gaatcagagt
75121 gagtggaaaca ccagatgctt gttcgtgtag ccaaccccat cagttccact gattcccaa
75181 acctactggg ttttcctaac tcagcttgag gttacagggg ggcagctgag gatggtgagc
75241 aggacccagt ggactgaccc cactgctgtc ccagcctcct cacatacagt tggctctctt
75301 ggtgataaca cttagcttcc tctcagtagg ttaaaaaaaaa aaaaaaaaaa aaaaaagaa
75361 tgaagaacag gactacttgg ccgacatct agctaagaga aaccttgag gcagctggag
75421 ggctactgcc catttgacag gggccatgct tccaaacaca aatattaacc ttggcaatct
75481 gactgtcttc tgcttcatga cttacacagt gctttttggg gtcattgtta agttgggaaa
75541 gagagaggtg aaggaaaaaa gatacaaaat ctcctggaac aactgagctt ttgatttcta
75601 gagagtattt aactggtacc agtgttcaaa atccaccctg gttaaaggcc actacttttc
75661 tgcttttctt gggcagaatg gattgtgtag ataaatccaa gtatctctc ctctggggt
75721 cctgaggctg gagataacaa aaaataaaaa tgtcaacacc tggatttttg gtaaagatgg
75781 caaaagcact caagtgatga ctaatcccca tgacttgaaa ctgggaacct tgggaatcag
75841 cttcacaag caggaagatg tttttctgca ccataatctt cccagttga gccacagcc
75901 aatgagcctg catctaacc attagcgaag ccaaaccag aagatggcag agattccgccc
75961 cacagacta tgctagcagc actgccctat aggtgtgtc aggagttcag gcacccagc
76021 gatggaagg gagagtcctc ctgacaactt caaggttgtc gaggacagca aaactcaaca
76081 ttagtgctgg aggttttgaa actggcgccc ccagacctca gcagtcacaa gggcttcaga
76141 gaagccagaa aaatatgtgt tgcattctgt aagtcattgt ttagtggttt atgacacagt
76201 taccttagtt cctcaagata catataattt ggggcccctt tccaggaggg catttcaata
76261 caccatttga accaatgatt ccacttttat taatttgcct ttaggcaata atcagggctg
76321 cctgtgcaat ctaaacctt tagaagttt actgtgttca taagagtga acatgaatta
76381 gctaaataca tttgtaccg acaagcaata tgtagtcat taaaattatg tcttaataaa
76441 tttaatgtga aaagtgttga tatggtaact gaaaagggtg tatgaaacag tatgcatagc
76501 atgatcctga aatgactgca aaacactgtg tacagtacga tgctgttttt gtttaaaatg
76561 cctatatgtg tttatacagt cacagaaaag aactctgtga ggggagtcct tctttgcttc
76621 ccacattcct gcctctactc acaaaacagg agcttccctc aactctctgg ctttttcaag
76681 tactaaggag gaagtgccca ctggggagca gaccctccac ttagacaga atggcctatt
76741 ggtcacatta acacacaagt agatgggagt cattgtgcct gaaaacctaa aacaggaact
76801 cctcctttcc tgggtctctc aaccactcc ctgaaggcca taggtccttt tcctgcccac
76861 ccacgtctct tctttctggt tctagagtct cagattgtct tgggtaagtg aaaacactca

76921	tgctctccct	gagccccagt	tgcctcaatt	tgagcaatta	gcaaagttta	ttggccaggc
76981	acggtggctc	acacctgtaa	tcccagcact	tcgggaggcc	gaggcagggtg	gatcacttga
77041	ggtcaggagt	tcgagaccag	cctggccaac	agggtgaaac	cccgtctcta	ctaaaaatac
77101	aaaaaattag	ctgggtgttt	tgtggcactt	gcctgtaatc	ccagctactc	gagaggctga
77161	ggcaggaaaa	tcgcttgaat	ccgggggggca	gaggttttag	taagccaaga	tctcgccatt
77221	gcactccagc	ctggggcgaca	tagcgagact	ttgtctcaaa	aaaaaaaaaa	aaatggataa
77281	tttttatttc	atttgcctca	attcctcata	agtgccagtt	agactcctgg	aggggaaaaag
77341	aaatgagtgg	tagaattcag	tcaacaattc	agtcacctga	attcagaatg	gcataaggca
77401	gtgggttttaa	gagatatttg	cgcccccagg	agacatttgg	caatatctag	aggcattttt
77461	tggtgtacca	acaggattag	ggattgagga	gggtgttgtt	accagcatct	agtgggaaaa
77521	gaccagaaaag	actacaaaat	accctacaat	gcacatcca	acccaaaatg	ttgaggtaat
77581	gacaatgttg	ggaaacccta	gttttaaaaga	tctatgccaa	agtgttaaca	gcagcttgct
77641	ttctattttc	tatatttgta	atttttctac	aatatttgtg	tgttgcttta	ctaaaaagga
77701	aaacaataaaa	agctactttt	acttttaaga	caaagtggcc	atagcatgtc	agaagttcag
77761	atgtggccaa	atgttgggtga	ctgttgataa	agaaaaaat	aaacctgggt	cttaccacaa
77821	gcccttggga	ctctttggaa	ccccccgtgg	aatgaaaata	gtgactaaga	ggaagagaga
77881	ttggatttga	tagagtctac	tcatagacat	gcattattaa	aaaagaaact	tagcaaggca
77941	acccgtgcct	agagacctag	cctagtggat	ttcacgttgg	ctgacttttt	ttctgttcac
78001	tcaaattggt	tgaattttta	gctgtgaca	ccactgtatg	ggtggtgtgg	ggcatgccag
78061	ggagcatcta	gttctggctc	cataggttta	ttatggctgg	ccagtcctaa	ttaaaagact
78121	ccctttgtct	tgtcttcagg	acttccagac	atggaactgg	ggctttat	ttggctctgg
78181	gcactatgct	tgcttcctgt	tatgttgcca	gattcatatg	taagctaagg	cagccctaga
78241	ggaatatttc	cctcccttta	ttcttatttc	ttagtacagt	tctggatcca	cagccaatca
78301	agcgtatcat	agaagagcca	gcaactctga	cgtgcaaac	gcccattgtc	tgccaccccc
78361	aacatgctgg	tatttttgac	agtccctaat	tagagcagta	cggttaaact	cagcctgtca
78421	tttgtgtggg	ttaagctgtt	tgaaaaaatcc	ttgagggatc	agccagtggg	gggaggatga
78481	ttttcctata	aacaaatgat	ggaacctcga	tgtctggaag	atactagctg	tggtttgggt
78541	cctggggcct	tttgagggga	cagaaatgtc	agctcccttc	ttccttggct	ctctgggctg
78601	tctcacagct	gggactgatg	ctctccattc	cagcattgga	agaccctcag	gaggcctccg
78661	gaccacagag	atatctgggt	ccagtttcat	tttatcattg	ctagtgtctaa	agggtgtaaca
78721	tttatcccca	agtgactata	taaaaataat	tcttcaaggg	agatcctggg	tatgaagtct
78781	atataaacac	ttcagaatag	ctagaaaagt	ttattttgat	tttagaataa	tgtttcacaa
78841	ggactgagtc	accaaaacca	ctcttcccat	aagtccattt	cactgggaga	atattttatac
78901	aaaaatcctt	aatatttggg	tcgtggggagg	gaaagtgtgc	agataatgta	aaaggatttt
78961	aattccgaaa	gaaacaaaga	aaaaaagaag	aggaccagca	tatccagttt	tgttttacgt
79021	gatctgaaat	tttatctgat	ctctcagtag	attgttacca	aaatcctgat	attagaaaaga
79081	agtctctatc	cattcacata	taacatgata	gtctatgtag	aaatttgcaa	gaaatctaca
79141	aaaaagcacc	agaattaata	catgagttta	tcaaggtcac	gggatacaag	atcagcattt
79201	aaaaatcaat	catatgtcta	tacattagca	atcaactact	ggaaatcaaa	atttttaaaaa
79261	ataatacggg	ttaaaaatta	catagtctgg	acatggtagc	tcacacctgt	aatcctagta
79321	ctttcagagg	caaaggcagg	aagatctctt	gagccaggga	gtttgagacc	tgactgggca
79381	acatagggag	acccgtgtct	tataagaaat	ttaaacatta	gccaggtagt	gtggcatgca
79441	cctatagttc	cagctactca	ggaggcagag	cccaggaggc	tgaggctgca	gtgagccgta
79501	atgggtgcctc	tgacttctag	cctgggtgac	agagcaaagt	cctgtctcaa	aaaaacaaaa
79561	caaaaacaaa	aacaagatgt	aattatgtat	acatttttaa	atatatgcag	aatctgtata
79621	ataaaaaactc	caaaaaactaa	tgaagaaaag	aagatctaaa	taaacggaga	gacatactgc
79681	atccatggac	tggaagactc	aacaatatta	agggtgtaat	tttccacaa	gatgatttaa
79741	ggattttaat	aaatttcaat	tgccatccca	gttaacaatc	ttttgtacac	atagtaacac
79801	tgactctgac	tctaaaaatt	acgtggaaaa	gcaaagaaac	ttaaaagagg	cgaaaaatgt
79861	tgaaaaaaat	aaacttgaag	aaatcacatt	atacaatttt	aaggcttact	ttaaagcaat
79921	aataatgaga	accatcacaa	tttaaaaact	acgtctctatg	aaaaaagaat	gaaaggcaag
79981	ctacagactg	agataaaatat	ttgcaaatca	catatctgac	aacttatcat	cataatatat
80041	aaagaattct	caaaaattca	atagtacata	aacaaaaaga	ctaaccctta	gatttttatt
80101	tttatatata	tatacatttt	tagagacaga	gtctcactct	gtttgttacc	cagaatgagt
80161	gcagtgggtg	gatcatagct	cactacagcc	ttgaactgct	aggcacatga	gattctcctg
80221	ccttagcctc	ccaagtagct	gagactatag	gactacaggt	gcataccacc	acatccagct
80281	aattttattt	attttttgta	gagatgaggt	ctcactatgt	taccagggt	gatcttgagc
80341	tcctgggctc	aagtaaatcct	tgaccttggg	cttccaaaag	tgaaaaaaa	aaaaacaaaa
80401	cctaattttt	aaatttttaa	aacctaaatt	ttaaaagagt	tgaacaggca	cttctccaaa
80461	gaagatataa	ggatggcaaa	taaacatatg	aaaagaagct	aaacatcatt	acctattaag
80521	gaataggaaa	ctaagtccac	aataagatac	cactagacac	acattagaat	ggcttaaaaa
80581	aattgacaac	accaagtttt	gacaaacatg	cagagctact	ggaactcaca	tgcattgccca
80641	gtggggatgc	aaaatagtat	aaccagtctg	gaaaactact	tggaaacttt	ttaatatt
80701	aaacatatat	ttaccatatg	acccaaaaac	cccatccctg	gatattttat	ctggagaaat
80761	gaaagcctct	cctcacacag	atacctgggtc	acgaatgttt	tagcatctgt	attaataaat

80821 ttccaaaatt gggaaaaacc aacacatcct tcagtgagtg aatttgggat actattcagc
80881 aataaagatg gtccaagaaa caaatcagac agatcttaaa ggcatcgcgt gcataaaaga
80941 agccattctc aaatagttac atattatatg attccattta tacaacgttc ttgaaaaggt
81001 aaaactatag gaactgagaa tagattagtg gttgcttggg gtgaggagag aatttgcctc
81061 taaaggagta gcattgtgga atttgggggg ctggttgaac tgtctgtact ataattgtgg
81121 tgggtggtgt tacttatatc tatacttgta gcatactgta tacacatgaa aatgtcaatt
81181 ttgctctata taaattgaaa ttttttcaaa tttaaaagta agctttgtgt caccatagaa
81241 cagtgtctatt tttaatagaa catttgatga tggaaatgtt ccatattttg tatccaattc
81301 tgtagccact agtctcatat aactagtaag cacttgaaat ctggcaagca tgacagaaga
81361 actgaatttt tcatttcatt taattttact gaatttaact gtaagtagcc acatatagct
81421 actagctact gtattgggca gcgcacccac agaagactga aatttctata ttgtgttcca
81481 gagcttatcc aacttgtgct gatgcagaaa acaggaatat ctagaataat gagaaatcaa
81541 aaattcatta catgtatgct cattaagaat gcactaactt ttaggccggg cacagtggct
81601 caagcctgta atctcagcac tttggggagg caaggtgggt ggatcacttg aagttaggag
81661 ttcaacacca gcctggacaa catggcgaaa ccccatcttt acaaaaaata caaaaagtag
81721 ccaggcgtgg tggagcacgc ctgtaatccc agatacttgg gaggctgcgg cataagaatc
81781 gcttgaaccc cagaggcaga ggtagcagta agccaagaat gcaccactga actccagcct
81841 gggtagacaga gcaagactgt ctcaaaaaaa aaaaaaaaaa atgcattaac ttttagattt
81901 tatagcagat gttgcttgca ggttaaagt ttctgaaatt tgggctcaag taaatttata
81961 ttccttcagc atattacatt caatgaagt atgggcctgt gtgctggagc agtcagaaga
82021 cacaccacta gcctgttggg tggctttaga agccagtctg tggccttttt taattgtcat
82081 aagtaattca aaagcaaacc gtggcatgtt gactagcttg ggtcaaccat aacaagtaat
82141 gatgtgtctc ctcagacatt gcagaacctt tgaaccagt ttttaagata atacacaaga
82201 aaatacaaga ttctttacaa tccagtctct accactctct atatctacag
82261 aggaatttgt aatttctcca tcatgcacct ctggtgtttg ctttagctgt caattccaca
82321 tggagttcct tttctactct ctttttagtg gataaaaagg gccttccctg gagcgggcaa
82381 ggtggttcac atctgtaac ccagtgtttt gggaggccaa gatgggagga ttgcttgaga
82441 ccaggagtgt aagaccaacc tgagcaacat agcaagatgc tgtatatata aaagaaatta
82501 aaatagtagc caggcttact gggcacctgt agtcccaact actcaggagg ctgaggcagg
82561 aggatctctt gagcccatga gctcaaggct gcagtgagct atgatggcac tactatgtct
82621 cagcctaagt tacatattag gtgacagagc aagattttgt ctcaaaaaaa aaaaaaaaaa
82681 aatgccttcc ctgtctctgt tgtagtgttc ccaaacattt gagtatctcc cagctatttg
82741 agtatcttcc tgatcttgtg cctgtctccc atccttcccta tactattact caccttcata
82801 tttttaattt ggctcacctt catttactta agtttgtctt aagcaatact atctgtgaca
82861 tcatgggttt cacatgctag ttatatTTTT gctaacacac attaatgata taaatgtatg
82921 tataaggaaa gctatttcgc cattcatgcc ctaacataaa ctacatgcc aatgtgggac
82981 acattcatca gcttggtaac aacttccata gttagctgga gtatctacac ctccagggaag
83041 tgggtgattt gccccctact gctgcagcaa taaggcacia gtccctgttca ggggatttga
83101 agactgtttg ttgggtaaat caactgccc ggctctgaca tttgaaagtc ctcccacaga
83161 gcatctggcc cactgcctga ttctactggg aagctccctt acatataaag ctttcaatcc
83221 tattttaagt actttattat aaatagtaac agagatccaa agaccaccag acatttgagg
83281 aatgcctccc acataaaaga cagaaactaa aataaagaaa gaggaaaaaa agtaatacga
83341 aagacacaga aatcatgtgg ggttcagaag aaaacttcaa aaagtctcac aaaacttaac
83401 atccttagat ttaaagaga aggtgatgca tctatgagac aagaacaaag tactgtcaaa
83461 ataataaata aggtataaag aaaaaaactc atcaattttt aaaaggatag ctcatTTTTT
83521 tgaaatcaat agaaagcttg gaaaataaag tagatgaaag ctcccagaaa gcagaacaaa
83581 taaacagcaa ttttttaaaa gagtgataag atgagagtct tggagaaata atctaaaaga
83641 ttcaagatcc aaataatagt tattccagag atgtagagaa aagaaagaga aggaaattat
83701 caaataaata actaaagaaa aattccatgt tgaagaacat gtcttgaggc caaacagtc
83761 caccaagtga cccccactct gagactcatt gaagtaaaga gaagatccta aacactaccc
83821 cacagaaaga gaaatgtcac ttacaaagga ttggaaatga gatttccatt gcgctagtca
83881 cagcaacctg tgctagaaga caatgaaaca attgagtttt aaccagaaat ctacaaacag
83941 acaaattaca aataattgtg aggggaagaa aaaagacatt tccagacaca ttcctaaact
84001 aaaaaataat tgcctctcat gtgatctttc ttaggaaacc attaaagaac ataatcctac
84061 aaaaggaaaa agtgcgccaa gaaaagtga ggatgtggaa atccagaaat ggagatcata
84121 ag

//

[Disclaimer](#) | [Write to the Help Desk](#)[NCBI](#) | [NLM](#) | [NIH](#)

